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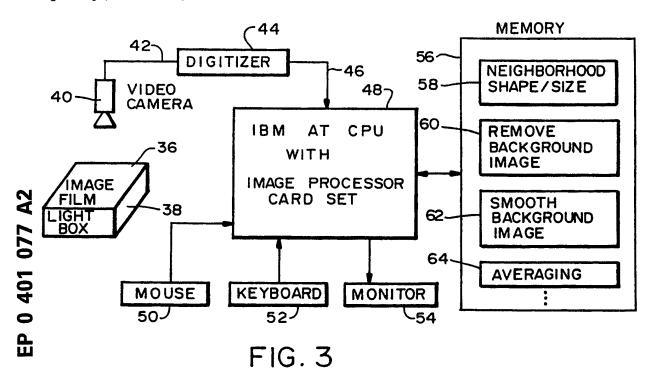
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- Method and apparatus for removing noise data from a digitized image.
- An apparatus and method for removing background noise and high frequency noise form an image by comparing each pixel in the image with neighboring pixels defining a variably shaped and

sized kernel. The size and shape of the kernel are optimized for the particular characteristics of the data to be analyzed.



#### METHOD AND APPARATUS FOR GENERATING QUANTIFIABLE VIDEO DISPLAYS

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## Background of the Invention

The invention pertains generally to the field of image processing, and, more particularly, to the field of generating quantifiable images from digital images representing data spatially as pixel patterns of greater and lesser intensity.

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The preferred embodiment of the invention is adapted for analysis of biological data generated in recombinant DNA research and other biological research. Such data includes 2D gels, DNA sequencing gels, gel blots, RFLP, DNA blots, microtiter color, microtiter fluorescence and other types of data presented spatially in an image. Typically, such images consist of a plurality of pixels with areas of pixels of varying intensity representing some amount of a particular DNA or protein with the intensity attributable to the protein being superimposed upon intensity representing background noise and high frequency noise caused by such things as pinholes in the film, penetration of the film by gamma rays etc.

Although the invention will be described in terms of its application to biological data, it will be appreciated that the teachings of the invention have utility in other fields of analysis of images.

A problem in analyzing such data in the past so as to be able to quantify the amount of a protein represented by a particular area of pixels in the image has been how to separate the intensity representing the data from the intensity caused by background noise. Although pixel intensity is the concept used herein to convey the teachings of the invention, pixel value is the general concept contemplated by the teachings of the invention. That is, the pixel values being analyzed may represent something other than light intensity. For example, each pixel in an image may represent the strength of radio transmissions from a small sector of the sky such that the invention could be used in radio astronomy applications.

In the past, such techniques as rolling ball filters have been used for background noise removal from images. Such a teaching is found in a conference paper by Rutherford et al. entitled "Object Identification and Measurement from Images with Access to the Database to Select Specific Subpopulations of Special Interest" published at the E-O Lase and E-O Imaging Conference sponsored by S.P.I.E., January 1987 with the proceedings published in May of 1987. There, the authors describe a method of background correction, i.e., noise removal, by use of a rolling ball filter which effectively takes the minimum pixel value in the ball filter region as the pixel value for

the background image. The resultant image is then subtracted from the digitized image. A pipeline image array processor is used to perform this process. Such a technique however is not optimized for removal of background noise and high frequency noise in all situations because it does not take into account the varying geometric shapes of the data of interest in many varied application and because it does not take into account other application specific phenomenon such as vertical noise strips, dead spaces etc.

Accordingly, a need has arisen for apparatus and a method to optimize the noise removal process for data presented in many varied spatial formats.

### Summary of the Invention

According to the teachings of the invention, there is disclosed herein a method and apparatus for background noise removal which uses a variable shape and a variable size kernel or neighborhood of adjacent pixels surrounding or next to the pixel being processed. The value of the pixel being processed is compared to all, or some selected subset, of the pixels in the neighborhood to find the minimum value. This minimum value is then substituted for the value of the pixel being processed. When all pixels have been so processed by comparing them to the values of the surrounding pixels in the corresponding neighborhood (each pixel has its own neighborhood), the resulting image is a "background image". A background image is an image where each pixel has the value of the smallest valued pixel in the neighborhood to which it was compared. Of course, those skilled in the art will appreciate that the background removal process can also be performed on a reverse video image by finding the maximum pixel value in each neighborhood and substituting that value for the value of the pixel of interest corresponding to that neighborhood.

The background image may then be further processed in some embodiments to remove high frequency noise. In one embodiment, high frequency noise is removed by processing the background image to generate a "maximum image", i.e., an image generated from the background image showing the maximum pixel values for each neighborhood in the background image. This maximum image is generated by using a smaller neighborhood than used in generating the background image and then using this smaller neighborhood to process the background image as follows. Each

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pixel has its value compared to the values of the pixels in a corresponding neighborhood of surrounding pixels. The maximum value in each neighborhood is then substituted for the value of the corresponding pixel. When this has been done for all pixels, the maximum image is complete. This maximum image is substantially devoid of high frequency, large amplitude noise which dips below the surrounding neighborhood such as is characteristic of pinhole defects in film etc. This maximum image is subtracted from the starting image to generated a "background removed image".

In another embodiment according to the teachings of the invention, the maximum image is used as a starting image in an apparatus to perform a process to remove high frequency, low amplitude noise. In this process, a neighborhood is used which is smaller than the neighborhood used to generate the background image. Each pixel value for a pixel of interest is added to the pixel values for all the other pixels in the corresponding neighborhood. The sum is then divided by the number of pixels in the neighborhood to derive an average pixel value, and the value of the pixel of interest is set equal to this average value. After this is done for all pixels, the resultant image is subtracted from the original image used to generate the background image to arrive at a background removed image.

In another alternative embodiment, the average image may be generated directly from the background image and the resulting image subtracted from the original image to derive the background removed image.

In another alternative embodiment, the image generated by the averaging process may be generated directly from the background image, and the resulting image is used as the input image for the process of generating the "maximum" image. The resulting image is subtracted from the original image to derive the background removed image.

#### Brief Description of the Drawings

Figures 1(a) and 1(b) show, respectively, a typical autoradiograph of a 1-D gel separation and the same image with the data removed leaving only the background intensity showing.

Figure 2 a drawing showing how the data bearing image pixel value profile compared to the background pixel value profile.

Figure 3 is a block diagram of the hardware which can be used according to the teachings of the invention.

Figure 4 is a flow chart for the process for removing background noise from the image.

Figures 5 through 7 illustrate the process of

background noise removal by comparison to neighborhood pixel values.

Figure 8 is a more detailed flow chart of the background noise removal process.

Figures 9 and 10 are alternative processes for selection of kernel size and shape.

Figures 11 and 12 illustrate how different kernel shapes are optimized for various data applications.

Figure 13 is a flow chart for the preferred embodiment of the process of background noise removal.

Figure 14 is a more detailed flow chart illustrating the process of generating a maximum image.

Figure 15 is a more detailed flowchart illustrating the process of high-frequency, low-amplitude noise removal by averaging.

Figure 16 is a flow chart for the process of generating a percent change image.

Figures 17(a) through 17(e) are the components of a quad display and the quad display itself.

Figure 18 is another type of quad display.

Figure 19 illustrates the concept of linked cursors for the quad display.

Figure 20 illustrates the process for alignment of images 1 and 2 which must be performed prior to the computation of values for the cursor locations in the quad display.

# Detailed Description of the Preferred Embodiment

Referring to Figure 1(a), there is shown an image of a typical autoradiograph of a 1-D protein separation. Each of lanes 10 and 24 contains separated bands of radioactively labeled proteins from different samples. For example, lane 10 contains bands 12 and 14 with the difference in pitch of the crosshatching of band 14 indicating that this band is of greater brightness or intensity than the intensity of band 12. Likewise, bands 16, 18, 20 and 22 in Figure 1(a) all have varying degrees of brightness or intensity. A similar situation exists for lane 24, which is separated from lane 10 by a dead space 26. The varying intensity of each band is indicative of the amount of the particular protein or proteins represented by that band which was present on the gel at that particular position.

It is useful to be able to quantify an image such as shown in Figure 1(a) such that the intensity of the various bands can be measured as an indication of the amount of protein represented thereby. The difficulty with this approach, however, is that the various bands have their intensities superimposed upon background noise which, because of its varying intensity across a lane, causes errors. That is, the background noise can be thought of as forming an image of varying intensity which would

still be present even if there were no data represented in Figure 1(a). Figure 1(b) is a drawing showing this background image. The background image has a lane 10' which corresponds to lane 10 in Figure 1(a) and a lane 24 which corresponds to the lane 24 in Figure 1(a). The differences in pitch in the crosshatching of lanes 10' and 24' conveys in pictorial form the variation in the intensity or brightness of the background noise in the lane at various locations. For example, the area 28 in lane 10 has a brighter background intensity than the area 30. By superimposing the image of Figure 1-(a) on the image of Figure 1(b), it can be seen that the relatively brighter intensity of band 14, which overlies an area of lesser intensity in the background image, as compared to a less-bright band 18, which overlies an area of brighter background intensity in Figure 1(b). For this reason, the relative intensities of the bands 14 and 18 cannot be used directly to quantify the amount of protein at those respective positions in the gel without creating errors caused by the varying intensity of the background image along lane 10. Thus, according to the teachings of the invention, the background image of Figure 1(b) is derived by image processing of the image represented by Figure 1(a), and the resulting image is then subtracted from the image of Figure 1(a) to leave a quantifiable data image.

Referring to Figure 2, there are shown comparative intensity profiles through the image of Figure 1(a) to show the effect of background removal. The intensity trace labeled 32 represents the intensity of the original image which includes both intensity attributable to data as well as intensity attributable to background noise. The trace labeled 34 represent the intensity of the original image after background removal and, therefore, represents the intensity attributable to the quantity of a particular protein located at the corresponding location on the gel.

According to the teachings of the invention, a manually manipulated cursor having a variable size and a variable shape may be placed over any band of interest in the background-removed image to determine the intensity of that band attributable to the presence of a protein of interest. The process of determining the intensity caused by the data essentially involves the process of integrating the trace 34 to determine the area under any particular peak. Typically, the result of this integration will be reported at the touch of a key on a computer keyboard.

Referring to Figure 3, there is shown a block diagram of a computer apparatus according to the teachings of the invention. Image film 36, which contains a spatial depiction of the data to be analyzed, is placed on a light box 38. The light box shines light through the image film to create a

pattern of light which has varying spatial intensity in accordance with the data and the background noise. Also, the image may be acquired by shining light on a nontranslucent film such as a polaroid shot. The resulting light pattern contains the data to be analyzed. This light pattern is converted by a video camera 40 into a video signal on line 42 representing an analog form of a raster-scanned version of the image on film 36. This analog signal is digitized in a data converter interface 44 and results in a stream of digital data on bus 46. This stream of digital data is read by a computer 48 and is stored in memory for further image-processing operations. The computer 48 is typically an IBM ATTM personal computer with an image processor card set plugged into the card slots. The image processor card set is an off-the-shelf, image-processing circuit manufactured by Matrox under the trademark MVP-ATTM Image-Processing Card Set. The computer 48 interfaces with the user through a mouse 50, a keyboard 52 and a monitor 54. An external memory 56 stores data and programs. Several software modules according to the teachings of the invention are shown as stored in memory 56. They are: a neighborhood shape/size interfacing module 58; a background removal module 60; a smoothing module 62; and an averaging module 64. The neighborhood shape/size interface module 58 serves to determine the shape and size of a neighborhood or kernel of pixels the values of which will be compared to the value of a pixel of interest in the kernel to determine the spatial intensity patterns of the background image. Typically, the shape of the neighborhood is determined by the computer for the particular application involved and relates to the typical shape of the data patterns to be analyzed. However, in alternative embodiments, the shape of the neighborhood may be set by the user in any of several different ways. For example, at start-up time, or upon switching applications, the computer can prompt the user through monitor 54 to determine what type of data is to be analyzed. After the user responds, either through the keyboard 52 or the mouse 50, the computer can put up either a textual, verbal or a pictorial menu of neighborhood shapes to be used. The user can then indicate which shape to use either by selecting it with mouse 50 or by typing in the code for the shape via keyboard 52 or by stating the shape. Alternatively, the user may sketch the neighborhood shape and/or size to be used through use of the mouse 50. In some embodiments, the shape of the neighborhood will be selected by the computer 48 based upon the user response regarding what type of data is to be analyzed. In some embodiments, a first neighborhood shape will be used to get rid of particular noise patterns having specific shapes followed by

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the use of anther shape for the neighborhood which is keyed to the shape of the particular data or application for which the teachings of the invention will be used.

The size of the neighborhood to be used generally depends upon the typical size of the data spatial patterns to be analyzed. In the preferred embodiment, the size of the neighborhood is chosen which has a largest dimension which is two and one-half times the size of the largest data spatial pattern to be analyzed. In the preferred embodiment, the user may be prompted for the desired size for the neighborhood and may respond either in terms of a number or a code for the desired size. Alternatively, the selected shape for the kernel may be displayed on the screen, and the user may adjust the size of the kernel by having the kernel superimposed upon the image to be analyzed and using a "rubber band"-type cursor to adjust the size of the kernel. The details as to how the shape and size of the kernel to be used are selected by the user or by the computer are not critical to the invention.

The details of the remove background image module 60 will be described in greater detail below. The basic function of this module is to determine the level of background intensity throughout the image to be analyzed and to create a background image reflecting that background intensity at all points in the background image. This background image may then be subtracted from the original image in some embodiments to derive a background removed image.

The smooth background image module 62 removes high-frequency, high-amplitude noise (high-amplitude noise for purposes of this invention means noise which dips below the level the surrounding neighborhood) by finding the maximum pixel in each kernel of the background image and setting the value of the pixel of interest in this kernel to the maximum value found in the kernel. When this is done for all pixels and their corresponding kernels "maximum" background image has been completed. This serves to get rid of high frequency, large amplitude noise characterized by pixels of low intensity in the background image such as might be caused by pinholes in the film, gamma rays, etc.

Finally, the averaging module 64 gets rid of high frequency, small amplitude noise in either the background image or the smoothed background image generated by module 62. This is done by averaging all the pixels in a neighborhood and setting the pixel of interest in each neighborhood to the average value. Both modules 62 and 64 will be described in more detail below.

Referring to Figure 4, there is shown a flow chart for a basic embodiment of a process accord-

ing to the teachings of the invention for background removal. The first step, symbolized by block 66, is to acquire the image to be analyzed. Specifically, the image to be analyzed is digitized into a plurality of pixels. These pixels define an image which contains data to be analyzed and displays this data in terms of varying spatial patterns of intensity, color, fill pattern or other means of displaying values for the pixels. How the value for each pixel is depicted is not critical to the invention. Typically, pixel values will be displayed in terms of their intensities. For some applications, the data to be analyzed is shown as dark spots on a lighter background such as autoradiography. In those applications, a "negative" or reverse video image is generated from the acquired image before further processing. In other applications, the data to be analyzed is shown as lighter spots on a dark background. In such applications, the acquired image is used as is without doing a reverse video image. In some embodiments, it is useful to average the original acquired image before further processing to remove the background. This averaging process is identical to the process described below with reference to Figure 15 carried out on the background removed image or the image generated by the process described with reference to Figure 14.

Next, the computer system interacts with the user to select a particular kernel size and/or shape for use in generating the background image, as symbolized by block 68. As noted earlier, the kernel shape is typically selected by the computer based upon the type of data to be analyzed in the preferred embodiment. That is, if the data takes the form of vertical rectangular blocks, as in the case of one-dimensional separations of DNA or proteins, then the preferred kernel shape is usually rectangular. However, if the data to be analyzed takes the form of circular spots such as in DNA library screens, cells tagged with fluorescing antibodies, or images of 96-well microtiter plates, then the preferred kernel shape is circular.

Generally speaking, the size of the kernel should be substantially larger than the size of the largest data area to be analyzed. That is, if the largest data spot to be analyzed is a circle of 2 mm diameter, then the preferred kernel shape and size is a circular area having a diameter sufficient to cause the total are within the kernel to be approximately 2.5 times the radius of the 2 mm diameter data spot. The reason for this size relationship is to insure that at least some background area outside the area of data of interest are included within the kernel. This is necessary to insure that a proper background image is generated. This is because the process of generating the background image involves comparing the value of each pixel in the image to be analyzed to the values of the sur-

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rounding pixels to find a minimum value characteristic of the background. Thus, if no background pixels are included within a kernel which happens to be centered over a data spot, then the minimum intensity value which will be found in that kernel will not in fact be representative of background intensity at that location but will be representative of the intensity of the data as superimposed upon the intensity of the background.

As noted earlier herein, the kernel size may be selected by the user using any one of a number of different methods, none of which are critical to the teachings of the invention. Alternatively, the kernel size may be selected by the computer automatically, based on the type of data being analyzed. In the preferred embodiment, the kernel shape is selected by the computer automatically, based upon the data being analyzed, and the kernel size is selected by the user using a "rubber band" cursor to adjust the size of a default kernel which is superimposed over the image of data to be analyzed. The user then touches an edge of the kernel and "drags" it out to an appropriate dimension in some embodiments. In the case of rectangular kernels, the user may touch each of two opposing sides and drag each one individually out to the appropriate dimension so as to obtain the desired size and aspect ratio. This is done after dragging the kernel to a desired position on the image to be analyzed so as to surround the largest area of data shown on the image.

Block 70 represents the process of actually generating the background image using the kernel selected by the user. This process is best understood by reference to Figure 5, which shows a typical kernel or neighborhood 72 of rectangular shape surrounding a pixel of interest 74. Figure 6 shows the relationship of the kernel 72 to the overall image being processed. The pixel of interest 74 is any pixel within the area encompassed by the kernel 72. Although typically the pixel of interest is in the center of the kernel in the preferred embodiment, in alternative embodiments the pixel of interest 74 may be located anywhere within the boundaries of the kernel 72. The pixel of interest 74 is shown in the middle of a raster scan line 76 and is in the middle of a column of pixels 78. As is best seen in Figure 6, the pixel of interest 74 is a single pixel in a line of pixels which together comprise the single raster scan line 76 of the image to be analyzed 80. The image 80 is comprised of 512 raster scan lines like the raster scan line 76 in some embodiments, and there are typically 512 pixels on each raster scan line. The size of the raster is not critical to the invention. The kernel 72 includes several pixels from the raster scan line 76 within its boundaries and includes several other raster scan lines both above and below the raster

scan line 76 although these other raster scan lines are not shown in Figure 6 to avoid unnecessary complexity.

Referring again to Figure 5, the process of generating the background image is accomplished by comparing the value of the pixel 74 to the values of each of the other pixels in the kernel 72 and finding the minimum value pixel and substituting its value for the current value of the pixel 74. For example, assume that the pixel 74 has a value of 5 on a scale from 1 to 10. Assume also that the pixels 82, 84 and 86 in the raster scan line 88 have values of 7, 4 and 1, respectively. When the value of the pixel 74 is compared to the value of the pixel 82, the value of the pixel 74 will be less, and no substitution is made. When the value of the pixel 74 is compared to the value of the pixel 84, it will be found that the value of the pixel 84 is less than that of pixel 74, and a substitution will be made such that the value of pixel 74 is rewritten to be a 4. When pixel 74 is compared to pixel 86, it will be found that pixel 86 has a still smaller value of 1, and this value of 1 will be written to pixel 74.

This process continues until all the other pixels in the kernel 72 have been examined. Each time a new minimum is found, that value is used to update the value of the pixel 74. When this comparison process is completed for every pixel in the kernel 72, the final value of the pixel 74 will be established for use as one pixel in the background image. This process of comparing each pixel in the image 80 of Figure 6 to all the pixels in a kernel comprised of a plurality of pixels adjacent to the pixel of interest is repeated for every pixel in the 512 by 512 pixel array of the image 80. When it has been completed, the complete background image has been generated.

The process symbolized by block 70 contemplates simultaneous processing for each pixel in the image 80 such that each pixel in the image is compared simultaneously with one other pixel in a kernel of pixels adjacent to the pixel of interest, and this process is repeated simultaneously for all pixels until all the pixels of interest have been compared to all the pixels and their respective kernels. This substantially increases the speed of processing to generate the background image. In some alternative embodiments, only a selected subset of the other pixels in each kernel will be sampled. In still other alternative embodiments, the process of comparing each pixel with the adjacent pixels in its kernel may be done serially such that each pixel of interest is compared simultaneously with all or some subset of all the pixels in the corresponding kernel such that the entire kernel is searched in a single machine cycle or however many machine cycles are necessary to make the comparison between one pixel and another. After

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this process is accomplished, another pixel of interest from the image to be analyzed is selected and simultaneous comparison is made of this pixel with all or some subset of the pixels in the kernel corresponding to that pixel.

Note that as the pixel of interest moves along a raster line, a corresponding kernel surrounding that pixel of interest is selected to keep the pixel of interest in the same relative location within the boundaries of the kernel.

Note also that the background image generation process must be performed using a copy of the image such that the updating of the values of each pixel of interest occurs in the copy. This is necessary because each pixel of interest is a neighboring pixel for the kernel corresponding to some other pixel of interest. Therefore, if the value of the pixel of interest in the image to be analyzed is updated prior to having processed all the other pixels in the image, there will be distortions and errors caused in the processing of other pixels whose kernels overlap the pixel which had its value changed.

After the background image is generated, it is subtracted on a pixel-by-pixel basis from the image to be analyzed, as symbolized by block 90 in Figure 4. That is, the value of pixel 1 in raster scan line 1 of the background image is subtracted from the value of pixel 1 in raster scan line 1 of the image to be analyzed.

After this process is completed, the resultant image is displayed as a background-removed image on the monitor 54 in Figure 3, as symbolized by block 92 in Figure 4.

Referring to Figure 7, there is shown symbolically the process by which whole image processing occurs in the computer apparatus according to the teachings of the invention. Simultaneous comparisons of each pixel in the image to be analyzed 80 to a single one of the adjacent pixels in the corresponding kernel is accomplished by the use of offset and compare commands to the image processing board set in the IBM ATTM. For example, assume that the image to be analyzed 80 is comprised of 9 pixels labeled A through I. Assume also that the heavy line 94 defines the boundaries of a kernel for a pixel of interest E. The phrase "pixel of interest" as the phrase is used herein means the pixel being processed which has its value compared to the other pixel values in the kernel or neighborhood and which has its value replaced if the test of the comparison is satisfied, i.e., in the case of generation of the background image, if the neighboring pixel selected from the other pixels in the kernel has a value which is less than the value of the pixel of interest.

To further the illustration, assume also that the heavy line 96 defines the boundaries for a kernel

for the pixel I. Similarly, a kernel comprised of the pixels D, E, G and H can be defined for the pixel H, and a kernel comprised of the pixels B, C, E and F can be defined for the pixel F.

Now assume that the first comparison in the process of generating the background image is to compare the values of the pixels of interest in all these kernels, i.e., the pixels at the lower right-hand corner of each kernel, to the values of the pixels at the upper left-hand corner of each kernel. Thus, in the case of kernel 94, the value of pixel E, the pixel of interest, is compared to the value of the pixel A. If the value of A is less than the value of E, then the value of A will be substituted for the value of E in a copy of the image 80. This copy is shown to the right and is labeled the "offset" image. Simultaneously, the value of pixel I is compared to the value of the pixel E. If the value of E is less than the value of I, then the value of I will be overwritten with the value of E in the offset image.

The offset image 98 is originally a copy of the image to be analyzed 80. To facilitate simultaneous comparison of some or all of the pixels in image 80 to one of the pixels in their corresponding kernels, the offset image 98 is used as follows. Imagine the offset image 98 is a transparency which can be placed over the image 80 and shifted about so as to align any pixel with any other pixel. For the first comparison in the hypothetical example, the pixel E will be compared with the pixel A. To implement this, the memory map of digital data representing the "transparency", i.e., the offset image 98, is electronically placed over the memory map of digital data representing the original or "acquired" image 80 such that the offset image pixel A lies on top of the pixel E and the offset image pixel B lies on top of the pixel F in image 80. This aligns the offset image with the image 80 such that each pixel in the image 80 which has a pixel in the offset image 98 overlying it will be aligned with the pixel to which it is to be compared for the first round of comparisons. That is, the pixel E will be aligned with the pixel A and the pixel F will be aligned with the pixel B. Likewise, the pixel H will be aligned with the pixel D and the pixel I will be aligned with the pixel E'. Examination of the kernels of image 80 indicates that for each of the overlapped pixels in image 80, i.e., the pixels of interest, the overlying pixel will be the pixel in the upper left-hand corner of the kernel in image 80 which corresponds to each pixel in image 80 which is overlapped. The offset for this first round of comparisons, then is "1 pixel up, 1 pixel left".

The value of each pixel in image 80 which is overlapped is then compared to the value of the pixel which overlaps it in image 98. If any of the pixel values in image 98 are less than the pixel values in pixel 80 which they overlie, the minimum

value is used to update the pixel in the offset image corresponding to the pixel in the image 80. The pixels in the offset image 98 which correspond to the pixels in the image 80 are those with the same "relative address". To aid in understanding the meaning of the phrase "relative address" one can think of the labels A, B, etc. for the pixels in image 80 as their relative addresses or labels in memory. Thus, if the value of the pixel A is less than the value of the pixel E, then the value of the pixel A is written into the memory location storing the value of the pixel E. The same process occurs for all other overlapped pixels.

Pixels in image 80 which are not overlapped, such as the pixels A, B, C, D and G, are compared to "dummy" pixels (constants or locations in the memory map which are loaded with constants) in the offset image 98 which have had their values artificially set to the maximum intensity level. This has the effect of causing the non-overlapped pixels in image 80 to never have their corresponding pixels in image 98 replaced with a minimum. The dummy pixels are labeled with Xs in image 98.

Thus, after one round of comparisons, each pixel in the image 80 will have been compared to one of the pixels in the corresponding kernel or a dummy pixel. To complete the process of generating the background image, a new offset or shift is performed to align the offset image with the image 80 such that the next pixel to be examined in each kernel overlies the pixel of interest in each kernel. Thus, for example, if the pixel E is to be compared next with the pixel D, then the offset image 98 is shifted such that the pixel D overlaps the pixel E, and the pixel E overlaps the pixel F. Then a new round of comparisons is made simultaneously to compare all overlapped pixels with the values of their overlapping pixels with appropriate updating where new minimums are found.

This offset/compare/update process occurs as many times as there are pixels in each kernel to be compared with the pixel of interest in each kernel. It is not necessary that all neighboring pixels in every kernel be compared with the pixel of interest to generate the background image. In fact, in some embodiments, only a sampling of the other pixels in each kernel is used to generate the background image.

The above-described process is graphically illustrated in the flow chart of Figure 8. The process illustrated in Figure 8 corresponds to the process symbolized by block 70 in Figure 4. No further discussion of Figure 8 is deemed necessary since it is self explanatory in light of the discussion above. Of course, those skilled in the art will appreciate that the background removal process can also be performed on a reverse video image by finding the maximum pixel value in each neighborhood

and substituting that value for the value of the pixel of interest corresponding to that neighborhood. This technique is deemed sufficiently self-explanatory as to not warrant further discussion.

Referring to Figure 9, there is shown a flow chart for the preferred embodiment of the process symbolized by block 68 in Figure 4. Basically, the process represented by the flow chart of Figure 9 represents an embodiment where the computer prompts the user to indicate what type of data is being analyzed and then selects the appropriate kernel shape based upon the user response. The user is then prompted to select an appropriate size for the kernel given the shape selected by the computer.

Referring to Figure 10, there is shown an alternative embodiment of the process symbolized by block 68 in Figure 4. The difference between the embodiment shown in Figure 9 and Figure 10 is that in the embodiment of Figure 9, the computer selects the kernel shape based upon the usersupplied data regarding the type of application data that is to be analyzed. In Figure 9, the user then selects the kernel size. In the embodiment of Figure 10, once the user supplies data regarding what type of application the machine is to be used on, the user is then prompted to select the kernel shape as well as to select the kernel size. In yet another alternative embodiment, the computer may select both the shape and the size based on the application data supplied by the user.

Figure 11 shows an example of two different kernel shapes for use on band type data such as is found in one-dimensional gel protein separations. The kernel shape indicated by the dashed line labeled 100 is not a good shape to use in this situation since it overlaps a portion of the dead space 102 which lies between band 104 and band 106. Since there is no valid background noise in the dead space 102, the kernel shape 100 will distort the background image, thereby creating errors. The kernel shape 108 is a better shape to use for this situation since it includes areas of the band 104 outside the data band of interest 110 but does not include any pixels in the dead space 102.

Figure 12 illustrates a situation where differing kernel shapes are useful. The more or less circular data spots in Figure 12 would be best quantized by the use of a circular kernel such as that shown in dashed lines at 112. However, certain types of data include vertical strips of noise in the image such as is shown at 114. In these situations, it is useful to do a two-stage background image generation process. The first stage of this process is to use a slender vertical kernel which is thinner than the thinnest noise streaks in the image. Such a kernel is shown at 116 in dashed lines. This kernel shape can effectively remove noise strips such as shown

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at 114. After a background image is generated using the kernel shape of 116, the second stage of the background image generation process is entered where the kernel shape changes to that shown at 112. Background image generation then proceeds operating upon the image generated using the kernel 112 on the acquired image.

Referring to Figure 13, there is shown a flowchart for the preferred embodiment of a process according to the teachings of the invention. The first three stages in the process are symbolized by blocks 66, 68 and 70. These three stages are identical with the first three stages in the process symbolized by the block diagram of Figure 4. Likewise, the last two stages, symbolized by blocks 90 and 92 are identical to the process stages symbolized by blocks 90 and 92 in Figure 4. The difference between the process symbolized by Figure 4 and the process symbolized by Figure 4 and the process symbolized by blocks 120 and 122.

The process represented by block 120 is a series of steps to remove high frequency, large amplitude noise from the background image generated by the process repre sented by block 70. Such high frequency, large amplitude noise typically results from pinholes in the film, the penetration of gamma rays through the film or other such phenomena which cause large spikes in the intensity values of pixels. The details of this process will be given with reference to Figure 14.

Referring to Figure 14, there is shown a flowchart symbolizing the process steps implemented by block 120 in Figure 13. The process represented by Figure 14 essentially generates a maximum image from the background image generated by block 70 in Figure 13. This is done using a smaller kernel than was used to generate the background image and by searching throughout the kernel to find the maximum pixel value and using that value to update the value of the pixel of interest within that kernel. This process is repeated for all or some subset of all of the pixels in the image to generate a maximum image.

The first step in generating a maximum image is symbolized by block 124 representing the process of making a copy of the background image generated in the process represented by block 70 in Figure 13.

Next, a kernel is selected as symbolized by block 126. This kernel should be smaller than the kernel used to generate the background image and, generally, is very small in that it has an area which corresponds to the area of pinhole type defects.

Next, in block 128 the copy image is offset to align any selected pixel in each kernel with the corresponding pixel of interest in the background image. This process is identical to the process described with reference to FIGS. 6, 7 and 8 except that a much smaller kernel is used.

Block 130 represents the process of comparing each pair of aligned pixels to determine which one has the maximum value. This process is also identical to the process used in generating the background image, but the neighboring pixel in the kernel is checked to determine if its value is greater than the value of the pixel of interest rather than less than as in the case of generating the background image.

Block 132 represents the process of updating the pixel in the copy image corresponding to the pixel of interest in the background image for each aligned pixel pair where the aligned pixel in the copy image has a value which is greater than the aligned pixel of interest in the background image. This process also corresponds to the background image generation process described with reference to FIGS. 6, 7 and 8 and need not be further described here.

Next, in block 134, the copy image is offset to a different location to align another pixel in each kernel with the pixel of interest in the corresponding kernel in the background image.

Then the test of block 136 is performed to determine if all the other pixels in the kernel selected for generation of the maximum image from the background image have been checked against the pixel of interest in each kernel. If all the neighboring pixels each kernel have been checked, the test of block 136 causes branching to block 138 where exit to the next step in the process is performed based upon completion of the maximum image. The next step in the process would be block 122 in Figure 13 in the preferred embodiment. However, in alternative embodiments, the next step in the process would be block 90 in Figure 13 or some other image processing step. If the test of block 136 indicates that not all the pixels in the kernel have been checked for a value which exceeds the value of the pixel of interest, then a branch to block 130 is performed where each pair of aligned pixels in all the kernels are checked as previously described. Steps 130, 132, 134 and 136 are performed as many times as there are neighboring pixels to the pixel of interest in each kernel. These steps 130, 132 and 134 along with step 136 result in the simultaneous processing of the entire

Referring to Figure 15, there is shown a flowchart of the process represented by block 122 in Figure 13. This process smooths the background image by averaging all of the pixels in a kernel thereby removing high frequency, low amplitude noise. The process of Figure 15 can be carried out using the background image generated by the pro-

cess of block 70 as the starting image in some embodiments or upon the image generated by the process represented by block 120 in Figure 13 as the starting image. That is, alternative embodiments to the process symbolized by the flowchart at Figure 13 are to perform either the process represented by block 120 alone or the process represented by block 122 alone or both between the processes represented by blocks 70 and 90. Accordingly, the first stage in the process represented by Figure 15 is symbolized by block 140 and making a copy of the starting image where the starting image may be the image generated by the process represented by block 70 in Figure 13 or the image generated by the process represented by block 120.

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Next, in block 142 a kernel is selected. In some embodiments, the computer may automatically select this kernel, and in other embodiments, the user may select a kernel. In either embodiment, the size and/or shape may be variable. The size of the kernel is generally substantially smaller than the kernel used to generate the background image as selected in block 68 of Figure 13.

Block 144 represents the process of offsetting the copy image from the starting image to align one of the pixels in each kernel having the shape and size selected in block 142 with the corresponding pixel of interest in each kernel. This process is similar to the process represented by block 128 in Figure 14 and the process discussed with reference to FIGS, 5-8.

Next, in block 146 the pair of aligned pixels are summed with the sum being used to update the pixels in the copy image which are aligned with pixels in the starting image. In some embodiments, pixels which have no overlying pixel in the copy image are summed with a constant.

In block 148 a process is carried out to offset the summed image generated by the process of block 146 to align another pixel from each kernel with the corresponding pixel of interest in each kernel.

The test of block 150 is to determine if all other pixels in each kernel have been aligned with and summed with the pixel of interest in each kernel with the total being used to update the value of the pixel and the summed image which corresponds to the pixel of interest in each kernel. In other words, steps 144, 146 and 148 are performed a number of times equal to the number of pixels in a kernel less one. This means that every other pixel in the kernel is aligned with the pixel of interest and summed therewith. If the test of block 150 determines that not all pixels in each kernel have been summed with the pixel of interest, branching back to the process represented by block 146 occurs. If all other pixels in a kernel have been summed, the process of block 152 is performed. In this process, each pixel in the summed image has its value divided by the number of pixels in each kernel. This generates a value for each pixel in the summed image which is the average value for all pixels and the kernel. This average value is then used to update the value of the pixel in the summed image.

The resultant image is used by block 90 in Figure 13 as the background image which is subtracted from the acquired image to leave a background removed image which is displayed by the process of block 92 in Figure 13.

Block 154 represents the process of repeating the smoothing or averaging process if desired or necessary. If not desired or not necessary, exit to block 90 in Figure 13 is performed.

Referring to Figure 16, there is shown a flow chart for a process of generating a percent change image useful in comparing two data images. Preferably, this process is carried out on a background removed image, but it may also be carried out between any two images. The process starts as symbolized in block 170 by subtracting the value of a pixel in image 1 from the value of a corresponding pixel in image 2. Typically, this process would be carried by subtracting pixel 1 of line 1 of image 1 from pixel 1 of line 1 of image 2 and storing the difference. However, the order in which the pixel are process is immaterial as long as corresponding pixels, i.e., pixels having the same relative location in the image are subtracted. An additional feature in some embodiments including the preferred embodiment is to clip the noise from the percent change image by implementing a rule limiting the allowable differences. The rule is, if the sum of the values of the two pixels being compared is less than a noise clipping constant (fixed for any application but modifiable by the user), then the difference is set to 0. This rule has the effect of eliminating salt and pepper noise from the percent change image which can result when the differences between the images at substantially all the pixels is small.

Next, in step 172, the difference value is multiplied by a constant. This constant may, in some embodiments be fixed for all comparisons, but, in the preferred embodiment, the constant is selected by the computer based upon the application, but the user can override the selection and supply a new constant.

Step 174 represents the process of dividing the difference between the two pixel values by the minimum of the pixel values compared. This step generates a percentage change number indicating how much the intensity or value of the one of the pixels varies from the value of the other pixel. These percentage numbers vary from 255% to 1%

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because the maximum pixel intensity value is 255 and the minimum pixel intensity value is 1.

The significance of the constant is that it controis what percentages changes can be seen in the final percent change image and the intensities at which the percent change pixels are displayed. That is, the constant controls the range of percentage differences which can be seen by stepping up the percentage change numbers to larger numbers. However, the maximum intensity value which can be displayed is 255. Therefore, selection of larger constants can lead to clipping since the resulting percentage change numbers after multiplication can exceed 255. In the preferred embodiment, the constant ranges from +1 to +256, but in other embodiments, any number between 0 and any positive number could be used including fractional numbers.

In step 176, the result from step 174 is added to another constant to set the 0% change number equal to some reference intensity value. In the preferred embodiment, intensity values range from 1 to 255, and the constant used in step 176 is 127 such that the 0% change falls in the middle of the gray scale.

In step 178, the results from step 176 are clipped between 0 and 255 for purposes of using the results on a video display. The result is stored in a percent change image file or framestore.

Step 180 represents the process of repeating steps 170 through 178 for all pixels in both images to complete generation of the percent change image. The image may then be displayed for inspection and analysis.

Referring to Figures 17(a) through 17(b), there are shown a plurality of images which together comprise the components of a quad display and the quad display itself. The purpose of a quad display is to facilitate visual comparisons and analysis of data bearing images. The components of a quad display are the two compared images used to generate the percent change image, the percent change image itself, and a fourth image which is called the difference image. This difference image is at each pixel the difference between the two corresponding pixels in images 1 and 2, divided by 2 and added to 127. The percent change image is the image generated by the process of Figure 16. The term "corresponding pixels" for the description of the difference image means the same thing as that term as used for the percent change image.

If the display hardware is large enough to display four complete images of the size of image 1, then all four images are simultaneously displayed as arranged in Figure 17(e). If however, the display apparatus can display only one image having the number of pixels in image 1, then several alternative embodiments are possible. First, each image

may be sampled to develop of subset of pixel for that image. Such sampling can include selecting every other pixel on every other line such that onefourth of the total number of pixels remain to be displayed. In another alternative embodiment, a selection of one-quarter of each image is made, and that guarter of an image is displayed in the corresponding portion of the quad display of Figure 17(e). The quarter of each image selected can be selected by the user or by the computer based upon the application or can be set to a default selection by the computer and modifiable by the user. The possibilities for which one-quarter to select are numerous and include one quadrant of each image, a horizontal strip amounting to onefourth of the pixels or a vertical strip amounting to one-fourth of the pixels.

In the preferred embodiment, selects which quarter of each image to be displayed by manipulation of a "linked" cursor in a scout image. The scout image is, in the referred embodiment, a 2 to 1 minification or subset of image 2. This minification is performed by selecting every other pixel of every other line and displaying the result as the scout image in the lower left quadrant of the display. The locked cursor is a fixed cursor encompassing one-fourth of the total area of the scout image. The user manipulates the position of this cursor by manipulation of a mouse, track ball or light pen etc. Also, the position of the cursor can be positioned by default in one of the four quadrants of the scout image and this position can then be modified by the user. As the user moves the cursor in the scout image, a corresponding cursor in each of the other four images moves synchronously to encompass the pixels corresponding to the pixels encompassed by the cursor in the scout image. When the user, selects a position for the cursor in the scout image as the final position, the corresponding pixels in the other three images are selected and displayed in the corresponding quadrants of the quad display shown in Figure 17(e). Simultaneously, all the pixels in the difference image corresponding to the selected pixels in images 1, 2 and the percent change image are selected and displayed in the lower left quadrant of the quad display.

In other embodiments, the quad display may be arranged differently. An example of such an alternative arrangement is as shown in Figure 18. Any combination of hardware and software to implement this process and cursor manipulation will suffice for purposes of practicing the invention. The preferred embodiment of computer code which when combined with the hardware illustrated in Figure 3 will implement the teachings of the invention is given in Appendix A.

Referring again to Figure 17(e) there is shown

the positions for four measurement cursor locations covering four sets of corresponding pixels. These cursor locations are shown at 182, 184, 186 and 188 in exemplary rectangular shape. The shape and size of the cursors can be selected by default by the computer and be modifiable by the user or can be selected outright by the user.

After the position, shape and size of the cursor is established, the computer calculates some quantity related to the values of the pixels inside the cursor. Examples of what these quantities can be are: 1) absorption meaning the sum of all the pixel values within the cursor in preselected units, which can be optical density, counts per minute, etc. for images 1 and 2 only; 2) the average value of all pixels in each cursor location for images 1 and 2; 3) square millimeters of optical density meaning absorption in optical density units divided by the number of pixels per square millimeter. Once these values are calculated for images 1 and 2, the values for the corresponding sets of pixels in the cursor locations in the percent change and difference images are automatically determined. That is, for the percent change image, the value returned for the cursor location is calculated according to the algorithm specified in Figure 16 as modified by omission of multiplication by the constant and addition of the second constant. That is, the number returned for the cursor location in the percent change image is the value determined for the cursor in image 1 minus the value for the cursor in image 2 divided by the minimum value between these two numbers.

Likewise, the value returned for the cursor in the difference image is the value of the difference between the values returned for the cursor locations in images 1 and 2 divided by 2.

Figure 19 clarifies how the cursor manipulated by the user in the 2 to 1 minified scout image (subset of image 2) corresponds to one-quarter of the pixels in the full size image 2 at the same relative location in the image.

Referring to Figure 20, there is shown a diagram illustrating the process of alignment of images 1 and 2 which is necessary for the computation of values for the pixels in the cursors in the quad display. Figure 20(a) represents the camera input video data that defines image 2. Figure 20(b) illustrates an already acquired image 1 stored in a frame buffer. The corresponding pixels from these two images are combined according to the algorithm specified in Figure 20(d) to generate the image of Figure 20(c) on the display. The user then manipulates image 2 under the camera until the displayed image calculated per the equation of Figure 20(d) shows minimal difference between image 1 and image 2. When this condition exists, the user so indicates, and the pixels of the image

of Figure 20(a) are captured in a frame buffer as the final image 2 for use in the processing described above to return the values for the selected cursor locations in the quad display shown in Figure 17.

Although the invention has been described in terms of the preferred and alternative embodiments disclosed herein, those skilled in the art will appreciate numerous modifications which can be made without departing from the spirit and scope of the invention. All such modifications are intended to be included within the scope of the claims appended hereto.

#### Claims

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 An apparatus for removing background noise from an image, comprising:

means for digitizing an image into a plurality of pixels defining a first image, each pixel having a value, and for making and storing a copy of said first image as a copy image;

means for generating a background image from said copy image by simultaneous processing on each said pixel, said simultaneous processing comprising, for each selected pixel in said copy image, comparing the value of said selected pixel with the value of another pixel in a group of pixels adjacent to said selected pixels and replacing the value at said selected pixel with the value of said other pixel if said other pixel's value is less than the value of said selected pixel, and repeating said comparison and replacement process for at least selected ones of said other pixels in said group; and

means for subtracting said background image from said first image to generate a background-removed image.

- 2. The apparatus of claim 1 further comprising means for displaying said background-removed image.
- 3. The apparatus of claim 1 wherein said means for generating includes means for selecting said other pixels in said group so that said other pixels define a predetermined shape.
- 4. The apparatus of claim 3 wherein said means for selecting includes means for selecting said other pixels so as to define a group with a predetermined shape.
- 5. The apparatus of claim 1 wherein said means for digitizing creates a digital image that displays data in spatial patterns having predetermined size and shape characteristics, and wherein said means for generating includes means for selecting said other pixels in said group includes means to select said other pixels so as to define a group having predetermined size and shape characteristics relative to said size and shape characteristics.

acteristics of said data.

image; and

- 6. The apparatus of claim 5 wherein said means for selecting selects said other pixels so as to define said group with a shape which substantially matches the shape of a selected data shape.
- 7. The apparatus of claim 6 wherein said means for selecting includes means for selecting a variable size for said group such that said group size can be substantially matched to the size of a selected area of data.
- 8. An apparatus for removing background noise from a digital image which displays data spatially as a plurality of pixels in a raster display, each pixel having a value, comprising:

means for digitizing an image containing said data and background noise to generate a first image; means for removing said background noise by repeated simultaneous processing of selected groups of pixel pairs between a copy of said first image hereafter called a copy image and said first image to generate a background image from said copy

means for subtracting said background image from said first image.

- 9. The apparatus of claim 1 wherein said selected group of pixels includes a kernel of pixels in said copy image which define a shape and size in said copy image which have predetermined relationships to the shape and size of selected data in said first image.
- 10. The apparatus of claim 8 wherein said means for removing includes means to select said pixels in said kernel to define a predetermined shape relative to the shape of data to be analyzed in said first image and further comprising means to select a variable sized group of said pixels in said kernel so as to maintain said predetermined shape but sized according to an input signal.
- 11. The apparatus of claim 8 wherein said means for removing includes means to select said pixels in said kernel so as to have a shape which matches the typical shape of data to be analyzed in said first image and so as to have a size which is larger than the largest sized group of data pixels to be analyzed.
- 12. The apparatus of claim 9 further comprising means to remove high-frequency, large-amplitude noise from said background image to generate a smoothed image.
- 13. The apparatus of claim 12 further comprising means for removing high-frequency, low-amplitude noise from said smoothed image to generate a filtered background image.
- 14. The apparatus of claim 8 further comprising means for removing high-frequency, low-amplitude noise from said background image from said first image.
  - 15. The apparatus of claim 8 further comprising

means for removing high-frequency, large amplitude noise from said background image before subtracting said background image from said first image.

16. An automated noise removal system in a system to graphically display data spatially as areas of varying intensity on a video display to preserve the intensity of data-bearing data displayed in spatial features of greater than a predetermined size while removing background noise also displayed graphically and spatially on a video display comprising:

a uniform illumination light box on which a transparent or translucent medium is placed, said medium having spatially depicted thereon the data to be analyzed;

a video camera positioned adjacent said light box so that there is an optical pathway therebetween, said camera providing a video output comprising an analog video signal depicting said data on said medium in terms of the spatial patterns of light intensity of light from said light box which passes through said medium with said light intensity being modulated by the spatial patterns of data and background noise depicted on said medium;

converter means coupled to receive said analog video signal for converting said analog video signal to a stream of digital data and for storing said digital data in a memory to define a digital first image comprised of a plurality of pixels arranged in rows and columns spatially displaying said data along with background noise;

background removal means coupled to said converter means for simultaneously comparing the intensity value at each pixel in said first image with a corresponding, predetermined intensity value of a pixel in an offset image, where said offset image is a copy of said first image but offset from said first image by a predetermined number of rows and columns, and at each pixel location in said offset image establishing the intensity value as the intensity value which is smallest as between the pair of compared pixel intensity values which correspond to said pixel location in said offset image and for repeating the offsetting and comparison and writing of intensity values for the offset image for each of a plurality of different offset values defining a neighborhood shape for a predetermined group of pixels in said first image thereby establishing said offset image as a background image where each selected pixel's intensity value corresponds to the minimum intensity value for all pixels in a group of pixels in said first image which are adjacent to the pixel which corresponds to said selected pixel when there is a zero row-and-column offset, said group of pixels defining a shape having the shape of said neighborhood;

means for subtracting said background image from

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said first image on a pixel-by-pixel basis to generate a background-removed image; and means for converting said background-removed image to a video signal and for displaying said video signal on a video display.

17. An operator-interactive automated noise background removal system to preserve the amplitude of data-bearing spatial features greater than a prescribed size while removing background and high-frequency noise from an image of biological data acquired from an autoradiograph, electrophoresis gel, fluorescence gel, photographic film or other media, said system comprising:

a means for displaying an image containing data shown by spatial patterns of varying intensity;

image conversion means for generating video output data from said image and positioned adjacent said means for displaying said image so that there is an optical pathway therebetween, said image conversion means for converting said image to video output data at a video output;

background detector means connected via an analog-to-digital converter pathway for receiving video output data and converting said video data to digital data, said background detector means processing said digital data so as to detect valid background values within the image of data;

computer means connected to said background detector means and having an interactive mode for the operator to specify upper size bounds of valid spatial features, said background detector determining the background neighborhood used in surrounding spatial features of the data;

monitor means connected to said background detector means and responsive to said video output for displaying a television image of said background-removed data;

- 18. The system of claim 17, wherein said background detector system means comprises means for converting said optical image data to digital image data and for causing said optical image data to be, upon receipt of a reverse command, converted to reverse video digital data after said conversion to digital image data.
- The system of claim 18, wherein said means for converting comprises an analog to digital converter.
- 20. The system of claim 17, wherein said background detector means comprises first, second and third discriminators for detecting when said received digital data is valid signal comprising spatial features in the biological data.
- 21. The system of claim 20, wherein said first discriminator means comprises means for generating a background image which is subtracted from said image of biological data.
- 22. The system of claim 21, wherein said background image comprises digital image data which

consists of a rectangular array of pixels each of whose intensity is the minimum within a neighborhood of each pixel in said biological image data.

- 23. The system of claim 22, wherein said array of pixels comprises digital data having digital intensity values which are shades of gray when displayed on said monitor means.
- 24. The system of claim 20, wherein said second discriminator means comprises means for determination of a neighborhood size for use in discriminating out noise which enables measurement of the amplitude of features and objects in said image of biological data where the base plateau beneath the features and objects is nonuniform.
- 25. The system of claim 22, wherein said third discriminator means comprises means for smoothing of said background image by removing or damping high-frequency, low-amplitude noise in said background image of biological data.
- 26. The system of claim 22, wherein said fourth discriminator means comprises means for clipping of said background image so as to clip noise which is high frequency as compared with the frequency of the signal for said data-bearing spatial features which is also high amplitude relative to the amplitude of the signal in said image of biological data where data-bearing spatial features are not present.
- 27. The system of claim 17, wherein said background detector includes means for subtraction of said background image from said image of biological data which preserves data-bearing spatial features and enables measurement of the amplitude of the signal comprising data-bearing spatial features within said image of biological data.
- 28. The system of claim 24, wherein said second discriminator means further comprises means for selecting neighborhood size through user interaction to separate data-bearing spatial features in said images of biological data so as to pick a neighborhood size and shape suited to enable measurement of quantity of biological materials represented by multiple data-bearing spatial features in close proximity.
- 29. The system of claim 17, wherein said computer means is connected to said image conversion means for receiving video output data therefrom, said computer means comprising a video interface for converting said video output data to digital signals and storing the digital signals.
- 30. The system of claim 17, wherein said computer means comprises an interface circuit and a computer connected thereto, said interface circuit converting digital signals received form said computer to analog signals and sending said analog signals to said monitor means, in response to which said monitor means displays said background-removed images of valid spatial fea-

tures.

31. An apparatus for removal of noise from a digital image displaying data spatially as a plurality of pixels on a raster-scanned video display comprising:

a background removal circuit for making a copy of said digital image and comparing a selected pixel in said digital image to a neighborhood of adjacent pixels using said copy and finding the minimum pixel value in said neighborhood and setting a pixel in said copy cor responding to said selected pixel to said minimum pixel value and for doing this process simultaneously for a predetermined number of pixels in said digital image to convert said copy to a background image;

a subtracter for subtracting said background image from said digital image to remove noise from said digital image.

32. The apparatus of claim 31 further comprising a circuit for receiving data regarding the size and shape of said neighborhood best suited for optimal noise removal and for causing said background removal circuit to use such a neighborhood in noise removal.

33. The apparatus of claim 32 further comprising a high-frequency filter in said background removal circuit for removing high-frequency noise from said background image before subtracting said background image from said digital image.

34. A method of removing noise from a databearing image spatially displaying data, comprising the steps of:

simultaneously comparing each pixel in said image to a neighborhood of adjacent pixels and setting said each pixel to the minimum value found in said neighborhood to generate a background image; subtracting said background image from said databearing image.

35. The method of claim 34 further comprising the step of selecting the size and shape of said neighborhood for optimum removal of noise from said data-bearing image given the size and shape of said spatial displays of data.

36. The method of claim 35 further comprising the step of removing or damping high-frequency noise in said background image before subtracting said background image from said data-bearing image.

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000150	45	74	5F	70	72	6F	62	65-32	5F	6E	61	6D		00	10
000150	5F	74	77	6F	00	08	5F	6D-65	6E	75	5F	75	70	6D	45
000170	5F	67	65	74	5F	70	72	6F-62	65	33	5F	6E 34	61 5F	6E	61
000180	្រែប៉ូ	10	5F	67	65	74	56	70-72	6F	6.2	65	74	65	6D	ΟÚ
000190	6D	65	-00	OB	5F	62	ĠΕ	69-6E	6E	5F	<u>-5</u>	69 69	74	65	6D
0001A0	OF	5F	64	72	61	77	5F	6D-65	4E	75	5F		10	5F	67
0001B0	00	OΑ	5F	6D	65	6E	75	5F-64	6F	77	6E	00	72	5. 69	64
000100	65	74	5F	73	74	Ġί	6E	64-61	72	64	5F	57 Er		65	6E
0001D0	5F	73	74	72	75	63	74	75-72	65	00	OA.	5F	6D		6F
0001E0	75	5F	70	72	6F	63	00	08-5F	61	63	71	39	36	67 5F	61
0001F0	00	05	5F	62	65	ÓΟ	6C	00-AE		OC.	00	09	78	6D	5F
000200	63	71	39	36	67	6F	00	E6-80		00	OB	5F	69 69	6F	6E
000210	70	72	6F	63	77	69	6E	00-08		61	63 ===	74	06	5F	63
000220	73	00	09	5F	69	6D	5F	63-6D		61	72	00	75	74	00
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MODULE 1

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APPENDIX A

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0005B0

\_11\_mode..\_im\_op mode..\_clear\_act ion\_area..\_ll\_bu s..\_clear\_menu\_a rea....build\_i mage\_filename... ...\_clear\_messag e area. \_im\_from disk..\_write\_all standards..\_fli cker..\_im\_distor mat..\_ll\_tk\_fiel d. . \_im\_outpath.. \_mouser..\_im\_syn c.. im\_video..\_o vlut..\_den96w..\_ errmso.b...\_aco 9600\_ellipse.a.. ....\_get\_pic\_di rectory..\_exit.. \_set\_menu\_title. .\_k\_exp..\_get\_ca minit\_values..\_i m setcolor..\_clo se\_standards\_fil e..\_im\_drawmode. .\_v\_plst..\_im\_mo ve..\_put\_caminit \_values..\_oet\_st andards..\_im\_ell ipse..\_set\_messa ge..\_im\_offset.. ...\_acq96go\_gri d.a...\_im\_ga in..\_SetCursorPo s..\_set\_screen\_t itle..\_write\_gri d..\_im\_softinit. .\_show\_standard\_ menu\_actions.. b dr\_0..\_close\_dat abase..\_move..\_u pdate\_mouse\_butt on\_display..\_wai t\_for\_mouse\_butt on press..\_wait\_

Ret.

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for\_mouse\_button \_release..\_im\_wl ut..\_im\_mask..\_b uild\_keys..\_im\_c start.....draw\_ grid...<.\_im\_cg rab..\_open\_datab ase..\_im\_inmap.. \_acquire\_integra ted.U...acq96go \_mvp\_init..alter grid....\_im\_t irst 96w..adjust stb..>....acq\_ and\_alion\_96wz... .define\_elliose\_ 96W...8.....ac .....x\_aco96goZ ...draw\_ellipseF ...build\_image\_f ilename...draw\_ grid....aco96go\_ mvp init....alte r grid....aco\_fi rst\_96w...adjus .....D....acgim g..pi..Automatic accuisition seq uence.Adjust ori d location and s ize.Surround lar gest colony in Q rid cell .(Inscr the default).Alt ernate Between I mages Viewed.Acq uisition complet e..Select to con tinue analysis.A

### EP 0 401 077 A2

cquire image. Acquire image.Acq uire age.Acquire image.... 8.Biological Vis ion - 1mage Ac quisition. Image Acquisition Menu .Could not open the database fil e..Could not fin d experiment rec ord in database for key %1d..Cou 1d not open the standards file f or key %1d...Aca uire . image.ACG UISITION - 90-WE LL.ACQUISITION -96-WELL.Align % s image with gri d, press mouse b utton when done. .The gain and of fset value for i mage %s are %3d and %3d..Saving acquired image t o disk : %s.%s%s %s.%s%s%d.%s%s%d %s.%s%s.Align %s image under cam era, minimizino the features of the difference i mage. Fress mou se button when d one..Press any b utton to .accept imace alignment .. The gain and o ffset value for image %s are %3d

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001280	Cá	C.	4ė	F-4	05	00	88	04-00	28	46	FC	88	•	BE	83	) <
001290	01	$\mathbf{E}_{\mathbf{A}}$	04	ΟÜ	29	30	83	C6-OC		FP	OE	E8	00 B6	18		>^uZ.~
0012A0	3E	5E	ÜΙ	OO	75	5A	83	7E-FC	01	7C	OF	FF		56		=Va
001ZB0	FF	B6	16	FF	OE.	E8	00	00-3D	90	OF	01	87		26	61 9D	V^1&.
001200	C7	98	9D	87	77	56	5E	C7-89	9D	C7	31	9D	C7			
0012D0	C7	1 B	ЭD	C7	18	ĢD	C7	12-9D	06	A5	9D	Co	4D	9D	Co	=VIYG
0012E0	3D	90	CS	F7	9D	CD	D6	56-49		DS	9D	CD		56	47 cn	
0012F0	C5	C7	9D	C5	C1	9D	C5	BB-9D	C5	<u>E4</u>	9D	C5	AD	9D	CD	.VPV=V
001300	A7	56	ಶ೦	CD	9F	56	3D	C5-9C		C5	78	9D		8A	56	
001310	OD	CD	7D	56	OC	CD	70	56-09	CD	63	56		CD	5B	56	vvh.Qvh.Lvh.Gv
001320	11	C5	Só	56	48	C5	51	56-48	C5	4C	56		C5	47	56	H.BVH.=VH.:VH.5V
001330	48	C5	42	56	48	C9	ЗD	56-48		3A	56	48		35	56	
001340	38	C5	30	56	38	C5	ZB	56-38		26	56			23	5o	8.0V8.+V8.&V8.#V
001350	38	CD	1B	56	BΑ	CD	11	56-37	C5	OΕ	7D		02	56	14	8V:V7V.
001360	CC	FO	56	44	CC	E2	56	3A-CC	D8	56	37			9D		VDV:V7
001370	09	56	14	CC	BD	56	1 B	C8-B8	56		C4	B5	56	30		.vvv <v<< td=""></v<<>
001380	ΑE			C4	A9	56		C4-9F	9C	CC	96	56	3A			. V6V6V:
001390	56	37	04	89	9D	CC	83	56-14			56		CC			V7VzVE\V
0013A0	23	CC	57	56	57	CC	39	56-23	CC	34						#.WVW.9V#.4VT./V
0013B0	28	CC	2A	56	29	CC	25	56-27	CC	1D	56	3B	C4	1A	9D	+.*V).%V'V;
001300	CC	11	56	48	C4	ΘE	9D	C8-08	9D	8B	AO	B5	O.S	O1	E4	VK
0013D0	03	83	C4	04	OE	E8	OO	00-07	46	F-4	02	00	83	7E	FL	
0013E0	0.2	70		20	8.5	1.4	FF	89-86	- 06	FF	80	96	OB		유표	.12
0013F0	7F	EC	88	76	F4	C4	9E	06-FF	26	FF	77	02	26		3/	~v&.w.&.7
001400	56	OF	E8	OO	-00	83	C4	06-83	86	06	FF	O4	46	كات	r/	V
001410	7F	E3	89	76	F4	ŌΕ	E8	00-00	1E	68	13	03	1E	68	DΑ	^vhh.
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001450	83	C4	08	C7					7E		88	76	F4	86	00	F~v.h.
001450	00	68	00	00	1E	68		01-9A	00	00	00	00	83	C4	08	.hh
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001470	3D	08	00	76	03	E9	5F	01-03	CO	93	2E	FF	Α7	02	06	=٧
001400	90	83	86	12	FF	<u>-</u> 4	46	83-FE	Q4	70	O3	E5	95	FD	E9	F !
0014A0	68	FD	90	83	FF	51	7C	OF-FF	B6	18	FF	<u> -  -                                 </u>	B6	16	FF	haaaalaaaaaaa
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001400	70	29	8D	86	1A	FF	89	86-06	FF	80	95	OB	FF	<b>C4</b>	9E	1)
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0015D0	64	Ú3	EB	E6	90	83	FF	04-7C	27	FF	B6	24	FF	FF	B6	j
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0015F0	04	06	05	FE	04	OΕ	05	FA-05		05		05	D6	05	E8	
001600	05	6A	14	60	14	9A	00	00-00	00	83		04	83	7E	FA	, j. j
001610	00	75	03	E9	48	FE	89	76-F4				00	26	FF	36	.uHv&.6
001620	OA	00	26	FF	36	08	OO			06		26	FF	36	04	
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-001650	36	00	OO	90	00	00	00	00-83		14		36	44	01	FF	
001660	36	48	01	9A	QQ.	00				04		76	F8		76	6H
001670	F6	9A	00	00	00	00	83	04-04	FF	76	F8	FF	76		9A	
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001 <b>6</b> B0	OC	83	3E	60	01	00	75	07-6A	03	6A	01	E.B.	05	70	0H	/j.j
0016C0	03	66	00	9A	00	00	00	00-83	C4	Q4 	- 6A	00	on OH	00	714	j
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001720	3F	03	8D	46				9A-00	00	OO.	00	83	C4	OC	8D	?FP
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001750	00	ŬÜ	00		-	02		00-ьA		9A	00	00	ΟÚ	$\odot \circ$	83	j . j
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001770	48	OI.	OD		66	oı.	C7	AF-9D	CF	AS	56	47	C.7	A3	9D	HfV5
	CF	9A	56	26	CF	8E	56	56-CF	83	55	55	CB	71	54	05	V&VVVU.aT.
001790	C7	6E	54	25 05	CF	66	50	40-CF	57	50	08	CZ	41-	9D	CF	.nTfVF.WVO
0017A0					JE	9D	CF	20-56	10	CF	29	φŢ,	⊏F	20	56	CV+.>V) V
0017B0	43	56	2B	CB		7 <i>D</i>	11	9F-87	Ú,	55	24	ĊE	(= j=	56	Zo	&VV*V&
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0017D0	CE	F3	56	51	Co	E2		C6-07	56		Ca		50	48	Co	.VHVHVHVH.
0017E0	D 1	56	48	C6		56		AF-56	JG SF	****	A1		ZD	CE	93	.VHV7V
0017F0	BD	56	48	C6	B8				3r 83	Sė		Có	80	5ė	49	VCVVH
001800	55	43		90	9D	Cò	8C	PD-CE		50	48		6 <u></u>	56	48	. (VH. VVH. qVH. 1VH)
001810	Có	7E	50	48	Có	76	56	48-04	7 1			57	5c	38	C6	.gVH.b V8.YV8.
001820	C6	67	Sá	48	Co	52	90	CA-SE	50	<u> </u>	Cc	56	4A	06	2E	TV8.0V8.J5VJ.
001830	54	56	38	CE	4F	50	38	Cá-4A	ĢC.	CE.	35		Co		8E	
001840	æE	CA	2C	8E	Ca	ZA	2E	C6-28	SE	Co	26	9E	85	D3	56	VV
001850	Có	22	8E	Co	20	8E	C6	1E-8E	85	EB			50	34	CD	aVV4.
001860	Δi	CD	$B\Theta$	స్ట	OB	C5	B7	9D-05	BJ	90	CD	AA		2F	CD	.V3V1V1.rV/.
-001870	9E	56	33		92	56	31	CD-82	56	31	CD	72	50	2.F	JA	dVPV&.DVA:
001880	64	Sc	ZE	$\mathbb{C}\mathbb{D}$	50		26	CD-44	50	20	C5	41	9F			V*./V&.*VbV
001890	56	24	$\Box\Box$	2F	56	26	85	24-56	62	85	10	56	<u>0</u> 6	85	OB = A	VVbVa
OOTSAO	56	$\odot$	吕교	EB	56	62	84	E1-56		C4	BD	5E		A4	56	T V
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001800	CC	7B	56	OF	C4	78	₹D	CC-6B			C4	68	9D	C4	5F	YVN.@VNJ
0018D0	90	CC	59	56	4E	CC	51	56-0B		4E	9D			9D	84	
0018E0	44	56	ാര	84	32			84-05			67			01	01	FV2VVbg
0018F0	95	07	96	OO				83-C4			02		00	00	00	- поветеля ўвенея З
001900	OQ.	83	C4	02	6A	FF		00-00				C4			00	
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001920	C4	02	9A			00	00	FF-36			FF	36	48		FF	
001930	76	08	FF	76	06	1E	68	77-03	8D	46		16			00	vvhwFP
001940	00						8D	46-B0	16	50	6A	00			00	FPj
001950	00							6A-02	90	00	00	00	00	83		
001960	04	B8	00	02	BA	00	00	52-50	52	50			68		01	RPRPRPh
001970	6A	00	6A	00	6A	00	9A	00-00	00	OO.	83	C4	14	6A	00	j.j.jj.
001980	60	03	60	ÕÕ	94	-00	00	-00 - 00	83	C4	06	-6₽	00	6A	06	j.jj.j.j.
001990	94	ÕÕ	ÕÕ	00	00	83	C4	04-6A	01	6A	02	60	FF	66	00	j.j.j.j.j.
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001400	00		C4	02	1F	68	00	00-1E	68	AF	OB	1E	68	50	00	hhhF.
001A00	9A		00			83	C4	0C-1E	68	50	QQ.	6A	01	9A	00	hP.j
001A20	00	00	00	83				68-00				00	00	00		h
001A30	C4							00-00			83			B8		j . j
001A40	00		00					00-00	QQ.	00	85	C4	04	9A	00	RF
001A50	00	00				CB		C8-00	00	00	1 E		00	$\circ \circ$		
001A60	DB	83		50	01	00	74	31-FF	76	Оb	FF	36	5A	01		>\t1.v6Z
001670	36	58	oi'	FF	36	56	01	FF-36	54	01	FF	36	52	O1	FF	6X6V6T6R
001A90	Зe	50	01	FF	36	4E	01	FF-Ja	4.	O1	ЭĀ	ĢΦ	ÓÛ	QQ.	OO.	6F6M6L
001A90	52	50	1.E.	ĠВ	DZ	03	EB	26-90	FF	36	5A	01	FF	ెద	58	RP.h/6Z6X
001AA0	$\overline{01}$	E.E.	36			FF	36	54-01	FF	36	52	01	FF	36	50	6V6T6R6P
001AB0	01	FF	76	Q6s	FF	36	4E	OIHFF	Jo	4C	01	94	QΦ	00	QQ	v6N6L
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001AD0	83	<b>C4</b>	1 E	1F	09	C.E	90	A7-90	E3	00		DA	56	<u>9</u>		V
OO!AEO	D7	9F	C5	$\mathbb{D}\mathbb{S}$	ЯD	CD	CB	56-39	C5	CS		C5		9D	C5	V9
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001800	9D	C5	A2	ЭD	CD	ĢΑ		59-05	77	SD		93	9D	C5	8F	
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001820	C5	71	90	C9	6B	9D		5D-56	4E	CD	55	56	19	C9	50	V".MV".EV&.9V'.6
001B30	56	ZZ	C5	4D		22		45-56		CD			60		36 C5	VF.(V
001B40	9F	CD	2D	56			28	9F-CD		56					56	V*V&V
001B50	18	9D	C5	14	9F	85	OD.	56-2A		02				F1 C8	9D	\VUTT
001860	50	CC	E3	56	55		D1	54-05		CE 56			93			V1V1V3VN
001570	CC	BF	56		CC			31-CC	9F 70				68		25	VU.sTpThV&
001880	CC	85		55		73		05-C4 08-C4						04		.\VF.HVE:7
001B90	CC	50		46		4D CC	56 29	56-5A						1 D		1V+.)VZ."VTV
OUIBAO	9D	CC	31	56	28	CC		56-58						ΑO		SVZVXVI
001BB0	53		15			00								CB		M
OOIBCO		03 04	_			07		00-56	OA.	F2					7A	VVV`z
001BD0 001BE0		C8		00			56	1E-B8							00	ZWV
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001500	FF	-						8D-46				9A	00	OO	00	.vhFF
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001070	EΔ	OO	ÕÕ	52	50	1E	68	70-04	6A	-02	-6A	- 02	- 9A	QQ	QQ	RP.hp.j.j
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001090	04	AR	OO	02	68	-00	02	-6A-00	-6A	-00	- 9A	00	00	00	QQ	.hhj.j
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002000	04	C5			OA				88	56	26		7F			VV&.VR
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002020	CD	61	55	32		44		iE-CD		56		CC				. \$V!VVV.
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002040		FO		55	CB			05-04			26		7D	56		vvv&VA
002050	CC	C7	56	18	CC	BB		16-CC					56	41		VVVA.
002060	$\mathbb{C}4$	96	90	CB	90			CH-8D			CC					·VVh
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002420	C5	CC	55	22	C5	C9	5ė	38-C5		56	38 C5	AC	54	48	C5	vavavH.
002430	C5	BD	56	38	C5	B9	56	38-C5	B5	90	56	48		93	9C	V8VH
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0024A0	52			56			56			•	CB	61			C4	.vvnVA.gaV
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0024E0	17	CC	Z 6	56	41	07	20	C8-01	5.6	17	F1	AO	OB	03	01	VAV
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002850	48	C6	64	9C	C6	5C	56	38-06	58	9C	CE	4F	56	35	CE	
002860	3F	56	35	86	31	56	24	CA-2B	56	38	C6	28	56	38		?V5.1V\$.+V8.(V8.
002870	1F	56	54	86	0F	56	24	CA-09	56	38	C6	06	56	38	C5	.VTV\$V8V8.
002880	FF	56			FB	9C	C5	E6-56	38	C5	E2	56	38	C5	DE	.vavava.
002890	90	C5	C7	56	38	C5	C3	90-05	BD	56	38	C5	ВĢ	9C	C5	V8V8
0028A0	A2	56	38	C5	9E	56	38	C5-9A	9C	C5	83	56	38	C5	7F	.vavava.
0028B0	90	85	72	56	24	Ċ9	6C	56-38	C5	69	56	38	CD	42	56	rV\$.1V8.iV8.BV
002800	52	CD	34	56	32	85	1A	56-24	C9	14	56	38	C5	11	50	R. 4V2VsVSV
0028D0	38	CD	05	56	35	CC	F 4.	56-35	CC	E3	56	20	CC	Dі	56	8 75 75 7
0028E0	1D		CA	56	38		C3	56-38	C4	BE	ФC	$\mathbb{C}4$	E4	Só	48	veveVH
0028F0	04	BO	90		AC	56		C4-A5	56	38	0.4	AO.	9C	$\mathbb{C}4$	94	VaVa
0020,0	56	48	C4	90	9C		88	56-38	C4	80	56	38	C4	7 co	56	VHVBVB.VV
002700	38		6C	56			64	56-38	C4	5E	56	38	$\mathbb{C}4$	56	56	8.1V8.dV8.~VS.VV
002710	38	C4	50	56	38	C4	48	9C-C4	39	56	48	C4	2A	Se	48	8.PV8.H9VH.*VH
	C4	20	56	48	C4	1 B	56	48-C4	11.	56	48	<b>C</b> 4	ОC	56	48	. VHVHVHVH
002930			56	48	OD	AO	06	00-03	ōC	00	Çığı	ΟŌ	48	9C	05	VH
002940	C4	05		54	05	3E		B8-02	Ů1	A4	1.2	CB	ÚΔ	ΟÜ	(n)	Т. Энинкынины
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002970	00	00	00	83	C4	04 01	9A	00-00	00	ΰŰ	83	CA	<u>04</u>	28	Fo	
002980	C4	- 04,		01	6A 00	00	26	88-84	00	00	B8	ĒF	ōò	28	C6	
002990	8B	C6		06		00	00	26-88	85	ÕÕ	04	88	C4	99	2B	
0029A0	88	F8		8A	84		26	88-84	00	01	26	88	85	ÓÖ	03	F.&&
0029B0	C2	D1	F8	88		FA	02	26-88	85	00	05	46	81	FE	ÓΟ	&&F
002900	20	80	26	88	84	00				9A	οŭ	00	00	ΟŬ	83	. 1 V. j. j
0029D0	01	7C	BD	89				00-6A FF-6A		9A	00	00		ÖÖ	83	J. j. j. j
0029E0	C4	04		01					00	9A	ΟÜ	00	00	00	83	j. j. j. j
0029F0	C4	08		01				FF-6A	-		C4	02	68	00		
002A00	C4	08		FF	00		00	00-00		00	ŰÜ.	83	04	08		hj.j
002A10	68	00		6A	00		00	9A-00	00		06	00		85	1E	
002A20	00	9A		00.		00	83	C4-02	8E		08	00	26	8B	1 E	@.*.P&
002A30	00	00		87		01	ZA	E4-50	BE OA			8B	1E	00		@.P&
002A40	00					01	50	8E-06				83				@.Pjj
002A50	8A	87		01	50	6A	01	9A-00	00			00				. j j. j
002A60	00	6A		9A		00	00	00-83								j . j
002A70	00	00	00	00	83	C4	04		6A							jj
002AB0	83	C4	04	6A	00	6A						83		00		&.>u.&
002A90	06	04		26		3E	00	00-00	75		26	C7				G.&.>u.&m
002AA0	47	00	26	83	3E	02	OO	00-75	07				02			.&.>u.&
00ZAB0	00	26	83	3E	Q4	00	00	75-07	26	<i>اریا</i>	06	04	00	20	0.0	&.>&&.&
002AC0	26	83	3E	06	00	00	75	07-26	C7	06	06	00	_ ∡(O 	- OU	26	.>u.&&.
002AD0	83	3E	08	00	00	75	07	26-C7	06	08	00	OC	. 00	26 01	ස්ථ /ර	>U.&j.j
002AE0	3Ε	OA	00	00	75	07	26	C7-06	OΑ	00	OS.	00	6A	0.7	OH AC	RP
002AF0	02	RA	ÖÖ	00	BA	00	-00	52-50	OE	E8	-00	-00	85	L4	OB	_
002800	QE	04	02	ÕÕ	26	C:7	06	- 0000	- 00	- 00	- 26	- CZ	06	$O_{\mathbb{Z}}$	OO	&
002B10	00	00	26	83	ЗE	04	00	00-75	15	8E	06	04	00	26	HI	0/. / 11 0/.

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002B90	1E B8	00	00	8E	D8	FF	76-0A	FF	76	OΩ	9A	00	00	00	VV
OOZBAO	00 83	C4	04	$\mathbb{C}4$	5E	Ũ6	26-FF	77	OΑ	26	FF	77	08	26	
002BB0	FF 77	06	26	FF	77	04	26-FF	77	02	26	FF	37	FF	76	.พ. ซ. พ. ซ. พ. ซ. 7. V
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OOZBEO	00.00	; OO	85	$\mathbb{C}4$	04	$\Box 4$	5E-06	26	FF	77	Ora	26	FF	77	
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002000	FF 76	o OA	6A	$\circ \circ$	94	00	00-00	ΟŌ	83	C4	10	1F	C9	CB	. V. j
002010	D3 90	21	O1	CE	ĤΑ	56	02-CE	83	56	1 D	CA	78	9D	CE	
002020	68 56	02	CE	41	55	1 D	CA-36	9D	Có	28	56	38	Co	24	hVAV6(V9.\$
002030	9C C4	1B	54	48		17	9C-C6	10	56	38	C6	OE	56	38	VHV8V8
002040	Co Ol	9C	<u>C</u> 5	FE	56	48	C5-FA	9C	C5	F3	56	38	C5	EE	VHV8
002050	56 38			9C	C5	E 1	56-48	05	DD	90	C5	D6	56	38	vavhv
002060	C5 D:		38	C5	CD		C5-C4		48	C5	CO	9C	C5	B9 56	vavav
002670	56 38		BZ	56	38	C5	AB-56	38		A6	90	85	9F 85	56	YVHVHVHV
002080	59 C9		56	48	C5	96	56-48		8D	5e	48	C5		56	H. ~VH. vVH. oVH. gV
002090	48 Ct		56	48	05	76	56-48		6F	56	48	C5	67 49	56	H. VH. XVH. QVH. IV
002EA0	48 CS			48	C5	58	56-48		51	56	48	20	56	18	H. BVH.: VH. 5 V.
002CB0	48 C5		56	48	C5	34	56-48		35	90	CD		56	35	. VVVV5
002000	CD 20			CD	14	56	18-CD	08	56	18	CC	FC C4		56	
002CD0	C4 F		04	F2	56	04	C4-ED	9C	C4	E8	9D CF		CC	06 06	
002CE0	07 C		90	C4	D8	9D	C4-D4	56	OA	C4	56	31		8F	VVVVV1
002CF0	56 16		BC	56	16	CC	AA-56		CC C4	9F 69	54	05	C4	62	V1.V&.nTiTb
002D00	56 3:		7F	56.	26	C4	6E-54			49	54	05	C4	3D	TJTNTIT=
002D10	54 05		5D	54	05	C4			-	56	33		13	56	TB+V4V3V
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EP 0 401 077 A2 ....bkrm\_97.c`.. 63 60 88 07 80 0B 00 09 62 6B 72 6D-5F 39 37 2E 000000 ...MS Cn....LLI 00 00 00 4D 53 20 43 6E-88 09 00 00 9F 4C 4C 49 000010 BCE%.....210.... 42 43 45 25 88 06 00.00-9D 32 6C E8 88 06 00 4F 000020 ...CV7.5...DGROU 55 52 4F 01 43 56 37 96 35-00 00 06 44 47 00 A1 000030 P.BKRM\_97\_TEXT.C 04 43 39-37 5F 54 45 58 54 42 4B 52 4D 5F 000040 50 00 ODE.\_DATA.DATA.C 54 41 05 43 04 44 41 54-41 44 41 4F 44 05 5F 45 000050 ONST.\_BSS.BSS6.. 98 07 03 42 53 53 36 53-53 53 54 04 5F 42 000060 4F 4E 05 06 00 48 96 01 04 01 DO-98 07 36 OB 03 000070 00 48 98 C7 00 48 48 26 00-07 07 01 E4 01 76 00 98 07 000080 . . . . . . . . . . . . . . . . 04 FF FF 02 07 9A 08-00 02 FF 03 00 00 08 09 01 000090 40 01 45 01 03 04 02-02 01 OD:00:00 03 01 56 -9C 00000A0 . . t. . \_\_\_\_fltused... φĪ <del>二</del>斗 OO 17/0 73 66-6C 74 75 5F 5F CO 80 23 02 -09 0000B0 FJSRQQ..FISRQQ.. دة () 51 51 ្វាញ់ 06-46 49 53 52 51 ÕÜ. 46 4A 53 52 51 000000 FIEROD. FIDROQ. . 51. ψÜ ÚΦ 52 51 00 06-46 49 44 52 51 51 45 OCCOO 46 49 FIWROD..\_\_acrtus 75 73 72 74 00 0A-5F 5F φi. 63 52 51 51 57 0000E0 46 49 ed..\_scroll..\_ge 67 65 5F 13 72-6F 6C ۵C O 56 73 63 ΟÖ 07 0000F0 65 64 t\_experiment\_key 79 6B 65 œΕ SE 72 69-6D 65 74 78 70 65 5F 000100 74 65 ..\_im\_softinit.. 74 00 OB 57 5E άŽ 73 6F-66 74 5F 000110 OO OC 5F 57 6D \_im\_average..\_im 51 69 60 72-61 67 ្ន 45 OO 65 76 69 6D 5F SF 000120 \_sync..\_frame..\_ 56 --ol eD 65 ⊕0 OE 5F-60 6E 63 ΟÚ 06 SF 73 79 000130 clip\_subtract..\_\_ 00 11 63 74 62-74 72 61 73 75 63 6C 69 70 5F 000140 remove bar\_graph 61 70 62-61 72 67 72 68 55 6F 76 65 5F 72 65 6D 000150 ..\_errmso..\_bkrm OS. 5F 42 6B 72 6D 72 6D 73-67 00 00 07 5F 65 72 000160 97. "\_im\_video.. OE 69 64 65 ĠΕ Ųψ 69 6D-5F 76 00 09 5F 000170 5F 39 37 \_im\_outmode..\_cl 6C 74 4D-6F 64 65 00 13 5F 63 75 69 ćD 5F 6F 000180 5F ear\_message\_area 72 65 61 56 61 73-61 67 45 73 65 000190 45 SI 72 SF 6D ..\_im\_outpath..\_ 5F 00 0A 74 68 75-74 70 61 5F 6F 00 OB 5F 69 6D 0001A0 im comode..\_clos 73 SF 63 SC SF 15 70 6D 6F 64-65 00 69 6D 5F 6F 0001B0 e\_standards\_file 69 6C 65 61-72 73 5F ĠĠ 64 45 **5**F 73 74 61 6E 64 000100 ..\_im\_cpuwin..\_9 DE 5F 67 69 6E -0063 70-75 77 OA 5F 69 6D 5F 0001D0 OO. et\_standards..\_m OB 5F 73 00 ĠD 6E 64-61 72 64 5F 73 74 61 74 0001E0 65 essage\_on..\_draw 77 72 61 6F-6E 00 0C 5F 64 73 67 65 5F 73 61 0001F0 65 border..\_xbkrm\_ 72 6D 5F 00-09 5F 78 62 6B 72 72 64 65 62 6F 000200 97..\_set\_message 61 67 65 74-5F 6D 65 73 73 65 39 37 00 OC 5F 73 000210 ..\_im\_interimage 61 67 65 69 6D 6D 5F 6E-74 65 72 69 00 OE 5F 69 000220 ..\_set\_screen\_ti 5F 74 69 73-63 72 65 65 6E 5F 65 74 5F 73 OO. 1. 1. 000230 tle..\_\_ftol..\_ze 5F 7A 65 05 60 OO. 5F 66-74 6F 60 65 00 06 5F 74 000240 ro..\_one..\_two.. 00 06 6F 6E 65-00 04 5F 74 77 5F 6F 6F 000472 000250 \_three..\_message 65 00 OC-5F 6D 65 61 67 73 73 65 65 74 68 72 5F 000260 \_off..\_all..\_spr 73 70 72 08 5F 61-6C 6C 00 6F 66 66 5F 00 04 5F 000270 intf..\_draw\_bar\_ 5F 62 61 72 5F 77 6E 74 66 00 OF 5F 64-72 61 000280 69 graph..\_chan..\_0 08 5F 67 68 00 05 5F-63 68 61 6E -00 67 72 61 70 000290 r\_chan..\_set\_bar 61 72 63 68 61 6E 00 0F-5F 73 65 74 5F 62 5F 0002A0 \_slider..\_get\_st 73 74 5F 65 74 64 65 72 00-1C 5F 67 69 73 **6**0 000ZB0 SF andard\_grid\_stru 5F 73 74 72 75 67-72 69 64 72 64 5F 64 61 6E 000200 61 63 74 75 72 65 00 55 90-2E 00 00 01 0E 5F cture.U....\_cl 63 6D

MODULE 2

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0002D0

EP 0 401 077 A2 ip subtract....\_ 69 70 5F 73 75 62 74 72-61 63 74 00 00 00 08 5F bkrm\_97....\_xbkr 72 6D 5F 39 37 16-0B 00 09 5F 78 62 6B 72 0002E0 m\_97...)..... 62 6B 37 DE 00 00 29-88 04 00 00 A2 01 D1 A0 0002F0 6D 5F S....Biological 39 53 01 02 07 00 42 69 6F-6C 6F 67 69 63 61 6C 20 000300 Vision BKRM\_97 000310 56 69 73 69 6F 6E 20 20-42 4B 52 4D 5F 39 37 20 Background Remov 000320 75-6E 64 20 52 65 6D 6F 76 72 6F 42 61 63 6B 67 al.Can't access 000330 73 73 20 74-20 61 63 63 65 00 43 61 6E 27 standards inform 61 6C 6E 64 61 72 64-73 20 69 6E 66 6F 72 6D 000340 73 74 61 ation for key %1 000350 20 25 60 6F 6E 20 66 6F-72 20 6B 65 79 69 61 74 d.Usino default 000360 75 <u>60 74 20</u> éé él 20-64 65 6E 67 73 69 oria structure d 64 00 55 000370 75 72 65 20 64 74 74 72-75 63 64 73 20 ata.Using defaul 72 69 000380 67 69 6E-67 20 64 65 66 61 75 6C ọc 55 73 t grid structure 74 61 000390 ė L 75 72 65 20 73-74 72 75 63 74 72 69 64 data.Setting up 20 67 74 0003A0 6E 67 20 75 70 74 61 00 53 65-74 74 69 for background 20 64 61 0003B0 75 6E 64 20 6F 20 62 61 63-6B 67 72 72 removal...Radiu 20 66 6F 000300 61 64 69 75 76 61 6C 2E-2E 2E 00 52 s = %d Xincremen 72 65 6F 6D 0003D0 72 65 6D 65 6E 73 20 3D 20 25 64 20 58-69 6E 63 t = %d Yincremen 0003E0 ĠΕ 72 65 6D 65 20 59-69 6E 63 3D 20 25 64 t = %d.Removing 0003F0 74 20 76 69 6E 67 20 3D 20 25 64 00 52-65 6D 6F background....Ba 74 20 000400 2E 2E 00 42 61 6F 75-6E 64 2E 62 61 63 6B 67 72 ckoround removal 000410 6D 6F 76 61 6C 63 6B 67 72 6F 75 6E 64-20 72 65 percent complet 000420 6D 70 6C 65 74 72 63 65 6E 74-20 63 6F e.Cleaning up ba 20 70 65 000430 70 20 62 61 65 61 6E 69-6E 67 20 75 65 00 43 6C ckground removal 000440 6D 6F 76 61 6C 75 6E 64-20 72 65 72 6F 000450 . 63 6B 67 ....I.....d.Z.. 64 00 32 C1 AO 00-02 00 00 ZE 00 49 A0 07 .......A.D..V.C ZE ZE 000460 00 02 56 01 43 C8-41 A0 44 07 00 02 04 00 96 B4 opyright (c) 198 000470 20 31 39 38 6F 70 79 72 69 67 68 74-20 28 63 29 9, Biological Vi 000480 61 6C 20 56 69 20 42 69 6F 6C 6F-67 69 63 sion Inc. All r 20 000490 39 6C 20 72 6E 20 49 6E 63-2E 20 20 41 6C ights reserved.p 73 69 6F 0004A0 45 44 00 70 73 20 72 65-73 65 72 76 69 67 58 74 .......W.....V" AO 06 00 03 00 00 00 00-57 9C 05 00 C8 00 56 0004B0 22 1F A0 E2 00 01 00 00 C8-18 00 00 57 56 1E B8 00 0004E0 ......&.b..j... 00 8E D8 8E 06 00 00 26-FF 36 00 00 6A 01 9A 00 0004D0 . . . . . . j . . . . . . . . . 00 00 00 83 C4 04 6A 01-9A 00 00 00 00 83 C4 02 0004E0 j.j.j.j..... 6A 00 6A 00 6A FF 6A 01-9A 00 00 00 00 83 C4 08 0004F0 j.j.j.j..... 000500 6A 00 6A 00 6A FF 6A 01-9A 00 00 00 00 83 C4 08 .F...j......j 00 D0 6A 01 9A-00 00 00 00 83 C4 02 6A 000510 .j.......+.... C7 46 FA 04 6A 00 9A 00 00 00 00-83 C4 04 2B F6 89 76 EB 000520 .....F.F..... 8B C6 C1 F8 06 89 46 EE-50 9A 00 00 00 00 83 C4 000530 ..F..F..V.@.F..V 02 8B 46 E8 89 46 F8 8B-56 FA 40 89 46 F2 89 56 000540 000550 F4 BF 00 02 89 7E EA C4-5E F8 26 8A 07 2A E4 89 F..^.&...F.+F... C4 5E F2 26 8A 07-89 46 F6 2B 46 FC 8B C8 000560 ..}.+...&...F... 46 FC OB C9 7D O2 2B C9 8B C1-26 88 O7 83 46 F8 O2 83 000570 F...N.u..N..F..F 4E EA 75 CF-89 4E FO 80 46 E9 04 46 000580 46 F2 02 FF ....~. j....... 000590 81 FE DF 01 7E 9A 6A 00-9A 00 00 00 00 83 C4 02 .^\_...+...V..sV if 5E 5F C9 CB 09 9C 2B-00 CC D2 56 13 CC 73 56 0005A0

0005B0

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000800	00 D8	00		C4				02-00			Eó	DB	26	39	06	
0008D0	00	00	75			86			86	E6	D8	88	86	88	D8	
000BE0	8E	06	00	00	26	2B		00-00	89	86	64	D8	88	86	88	&+d
0008F0	D8	99		06				F7-3E	00		26	A1	OO.	00	8B	
000900	CA	F7		88	D8			89-86	6A	D8	88	86	88	DB	99	+
000710	26	F7	3E		00			FC-03	8e	88	$D\Theta$	89	46	FE	FF	&.>FF
000930	E6	E6		FF	B6	E8		FF-B6	88	DS	1 E	68	CD	(0)	8D	и и и и и и и и и и и и и и и и и и и
0000740	86	94	D8	16	50	5A		00-00	$\odot \odot$	83	<u>: 4</u>	θE	$\Xi D$	86	ĢΦ	ни и в Ети в е и н и и и и
000950	DB	16	50	68	υĊ	90		0000	OO	83	$\mathbb{C}4$	96	88	86	78	Pd
000960	D8	89	86	82	D8	8B	56	6E-D8	89	86	74	D8	88	86	90	a a n n n n n n N n a a toa a n
000970	DS	F7	AE	8E	D8	03	86	78-D8	89	80	76	D8	8B	86	86	
000980	DB	F.7	AE	84	D8	03	86	6E-D8	89	86	6C	D8	8E	06	20	
00070	00	8F	46	08	26	39	Óδ.	00-00	75	$\mathcal{O}(G)$	8E	06	22	00	26	F.&7U".&
ŎŎŎŶĂŌ	Αí	00	00	EB	08	8E	06	02-00	25	Αi	$\odot \circ$	00	89	86	94	
000990	DB	FF	Вó	6C	D8	FF	Bó	76-D8	FF	БĠ	74	DB	FF	E6	82	- Lau Dan Van a Canna
000960	D8	50	FF	76	06	9A	ΟÜ	00-00	(m)	83	C4	OC	8E	ÜĠ	<b>04</b>	. "Р <sub>к</sub> унска кажини.
OUCODO	00	26	FF	36	ÜÜ	00	òΑ	02-9A	OO	()n()	$\circ\circ$	ÚÜ	83	C4	)4 	. &. 6 j
0009E0	8E	06	04	OO	49	9C	03	01-07	<b>E</b> :1	9C	CF	A8	56	16	C7	.V)VV!
0009F0	A3	56	29	C7	9E	90	CF	95-56	1 B	C7	70	56	21	C7	76 cc	pV&.1fV#.^
000A00	90	<b>C</b> 7	70	56	26	67		90-07	55	56	23	C7	5E	9C	CF	70VA#
OOOAIO	25	56	$1\mathrm{D}$	CF	15	56	27	C7-0C	ĢD	Co	F2	56	23		DC 9C	V#V#V"
000A20	56	23	C6	D8	56	23	Có	D3-90		CO	56	22	C6	C1		VIII VIII M
000A30	C6	ΑF	56	21	C6	A6	90	CE-9D		IA	Co	9A		CE 56	05	VhVV.
000A40	56	1 D		68	9D	CE	13	56-20		10	9C	Cò	OD 90			V V
000A50	Cò	OB	7C	CS	OB.			C6-03		05		01 56				VVVV
000A60	56	05				05	C5	F7-56		C5	F2 69	56 56		C5		VVViVd
000A70	56	05				05				CD D3	56	10				<٧٧,٧
000AB0	9D						1E	56-2C								vvvIV"
000A70	CC				CC			C4-6E							60	.weV).neV;
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EP 0 401 077 A2 75 61 64-5F 39 37 2E 63 61 ....quad\_97.ca.. **8**8 07 80 OB OO O9 71 000000 ...MS Cn....LLI 4C 4C 49 00 00 00 4D 53 20 43 6E-88 09 00 00 9F 000010 BCE%....210.... 42 43 45 25 88 06 00 00-9D 32 6C E8 88 06 QQ4F 000020 ...CV7.5...DGROU 06 44 52 4F 55 47 96 35-00 00 00 A1 01 43 56 37 000030 P.QUAD\_97\_TEXT.C 54 45 58 54 04 43 39-37 5F 51 55 41 44 5F 50 OC 000040 ODE.\_DATA.DATA.C 41 05 43 54-41 04 54 05 5F 44 41 44 41 000050 4F 44 45 ONST. BSS. BSS7... -07 53 37 98 53-53 03 42 53 5F 42 000060 4F 4E 53 54 04 .H. #. .. . 6 . . . H. . . . OA 05 06 96 36-98 07 ÛÛ 48 04 01 00 48 B8 23 03 000070  $\mathcal{O}\mathcal{I}$ 48 98 ψŌ 00-07 07 01DC 48 2E 98 07.00 000080 69 03 FF. ()Z} FF 02 08-00 02 FF E9 5'A 00 08:09 01 000090 1 E زيائد  $O_{-}^{\dagger}$ 4= : 1  $\mathbb{O}\mathbb{T}$  $\bigcirc$ 4 02-02 01 00 00 0.5 0156 90 ODÇÇÇÇÂÇ .....fltused.. 65 <u>\_</u>,4 00真色 73 65-6C 74 75 5F 5F 00 09 ODOCOBO CO. 80 AB. FJSROQ..FISROD.. 51 31 100 06 00 06-45 49 53 52 51 52 51 000000 45 40 53 06 FIERGO..FIDROG.. QQ. 52 51 51 06-46 45 A, B,46 49 51 00 45 52 51 OCCODE: FIWROQ..\_acrtus 72 7 a. 75 73 5F Ġ1. 65 51 OO. 0A-5F 49 57 52 51 O000E0 46 ΦĐ ed..\_oet\_experim 7.3 67 65 78 70 65 74-5F 65 ()() 13 5F 67 COCOFF 65 64 ent\_key...read\_" 72 6.4 ==== 72 55 61 00-11 5F 65 6E 74 SF cБ 65 79 000100 am\_disk\_tb..\_\_aF 77 3,1 ωi 40 00.07 69 5F-66 6.2 5.5 64 73 6B 6D 000110 51 uldiv..\_get\_pixe ంచ్ 78 12 5F-67 65 74 55 70 to P 76 00 75 60 59 000120 64 ls\_per\_mm..\_mess 65 73 73 6D-6D  $-\dot{Q}(\dot{Q})$  $\mathbb{O}\mathbb{C}$ 55  $\Delta D$ 72 5F <u>6</u>C 73 5F 70 65 000130 age\_off..\_ctype 55 74 79 7ú 66 00-07 SF 5F 63 5F 6F 66 61 67 65 000140 ..\_sprintf.... **⊙**9 ⊙⊙ ပစ 70 72 69 6E-74 66 OO. 848 E:4 00 08 5F 73 000150 mv\_c.r...\_men 6D 65 55 œΕ 69 72 00 BD-80 16  $\bigcirc\bigcirc$ 08 76 5F 63 000160 5D u\_wn..\_im\_paint. 7 A. 69-6D 5F 65 6E OO 00 09 5F 70 61 5F 77 6E 000170 75 E...clear\_YN\_flag..REPORT\_CIRC. 60 65-61 72 SF 57 45 55 దర OD 63 6C 0045 E4 ID 000180 0052 43 49 52 45 50 4F-52 54 5F 43 OB 000190 61 67 00..N. \_unlink..\_c SB OO 10 5F 63 75 6E-oC 67 6E 07 5F 41 010001A0 85 80 08 lear menu\_area.. 72 **6**5 00 6i 65 61 65 6E-75 5F 61 72 5F 6D 0001B0 6C \_im\_rowr..\_write 74 65 77 72 69 5F 77 72-00 17 72 6F 5F 000100 5F 69 ΔD 39 \_density\_record? 63 79-5F 65 6F 72 64 74 72 6E 73 69 OCCIDO 5F 64 65 7..\_close\_standa 74 61 6E 04 61 73-65 5F 73 00 15 63 60 6F 37 5F 0001E0 rds\_file..\_im\_ro 72 6F 69 6D 5F 66 69 6C 5F 45-00 08 73 5F 0001F0 72 64 ww..\_im\_todisk.. 6B 00 0E 73 5F-74 64 69 6F OO. ŌΑ 5F 69 6D 000200 77 77 \_get\_standards.. 72 64 73 00 07 74 61-6E 64 61 67 65 74 5F 73 000210 5F \_errmsg..\_im\_dra 64 72 SF 61 6D 6D 73 67 00-00 5F 69 65 72 72 000220 5F wmode..\_set\_menu 65 6E 75 5F-73 65 74 5F 6D 65 00 OF 64 000230 77 6D 6F title.. close.. 6C 73 65 00 08 06-5F 6F 0063 74 6C 65 000240 5F 74 69 \_quad\_97..\_strds 73 74 72 64 73 5F 39 37-00 07 71 64 5F 000250 5F 75 61 p..\_set\_menu\_lin 6C 69 6E 74 5F-6D 65 6E 75 5F 5F 73 65 70 00 OE 000260 e..\_densm..\_im\_o 6F OO OB 5F 69 6D 5F 73-6D 6E 65 00 06 5F 64 65 000270 utpath..\_set\_mes 6D 65 73 65 74 5F 73 00 0C-5F 75 74 70 61. 74 68 000280 OE 5F sage..\_mv\_box..\_ 6D-76 5F 6F 78 QQ. 62 5F 65 00 07 000270 73 61 67 5F im\_interimage..\_ 67 65 00 11 72-69 6D 61 69 6E 74 65 0002A0 69 6D 5F set\_screen\_title 74 6C 65 5F 74 69 72 65-65 6E 65 74 5F 73 63 0002B0 73 16 5F 67 ..\_im\_circle..\_0 *6*5 00 63 69-72 63 6C OA 5F 69 6D 5F 000200 0074 5F 66 5F 6F 70 74-69 63 61 60 5F 64 65 6E et\_f\_optical\_den 0002D0

MODULE 3

EP 0 401 077 A2 62 oC 78 74 73 69 74 79 0002E0 19 00 OB 43 4C-45 41 52 5F 46 52 41 4D 00 23 B4 0002F0 74 65 78 74 5F-70 72 65 70 OO 13 BC 15 45 00 09 000300 69 74 65-5F 72 61 6D 5F 64 69 73 77 72 ŎŌ. 12 5F 000310 74 0A-00 07 72 77 5F 78 6F F3 B4 62 6B 5F 66 00000320 70 65 6E 00 10 5F 75 5F-6F 24  $\odot \odot$ 05 74 OO 80 40 000330 65 5F 62 75 74 74 73 6F-75 65 5F 6D 74 000340 70 64 61 5F 69 **6**D 5F 00 OD 6C-61 79 73 70 51 64 69 000350 6E 6F 4E 54 44 53 72-00 07 5F 49 74 63 6F ٥C 6F 73 65 000360 6F 6C 6F 72 63 62 69 73-65 74 OD SF 6D 5F 000370 50 (n) 41.5 45 40 4.0 SF 4... 41-42 45 Ç₽ 4 C 000380 OO38 문과 ∴E. -00 75 75 6D 52 SF 6F 5F-65 Oi 80 ZB QQ QQ ĠĐ 53  $(p_i)_{i=1}^n$ 000390 74 00 OF 73 70 60 ÇÇ 07 5F-76 5F 5F òΒ 69 OCCUBAC  $\odot$ Ú.S 65 65 QÙ 73 70 61 64 69 73-6B 5F ĠΖ 74 5F 000380 5F 65 BC 00 05 aC 72 63 SF చం 61 62-65 B4 OB 00 08 ZΕ 000300 5F OB. 69 6D (n)5F 63-68 6B 69 56 5F άB 73 00 07 0003D0 69 습류 6D 67-65 74 ĠΙ 17 5F 5F 72 74 00 69 ĠΕ 69 0003E0 00 0A SF 5F-73 70 61 63 **65** 72 65 65 5F 66 0003F0 73 άÐ 69 74 72 SF 77 64-65 O0 06 6F 70 óĐ 4F SD SF 000400 69 74 6F 72 6D ÷ 1 64-69 73 66 5F 69 6D 5F 000410 65 OO ĠΕ SF 6B 00 OC 76 69-54 65 ĠΕ 00 09 6D 5F 5F 69 000420 73 6D 5F 08 5F 69 6E-74 OŬ. 5F 70 72 69 74 000430 5F 6F 33 40 44 5F 55 47 00-07 42 SA BA 18 79 63  $\circ\circ$ 000440 6E 4F OO 95 4F 47 44 5F 39-37 5F 4C 41 OC 51 55 600450  $\circ\circ$ 64 65 5F 00 12 75-73 65 72 ĠΕ 07 SF ĠΒ 000460 80 .... OO. 00 4B 5F 62 73 66 69 65 72 61 6D-64 5F 45 74 000470 60 6D 5F 72 5F ĠF 76-65 00 ្រា o7 σĐ 56 08 5F 69 6D 000480 SF 52 54 QE 00-0B 52 45 50 4F 4F B4 000490 65 63 74 OO 53 52 44 5F 53 54 54-00 07 45 00 D3 80 4F 44 0004A0 4D 64 6E 64 61 72 67 65 5F-73 74 61 5F 74 10 0004B0 50 00 00 75 72 65 73 74-72 75 63 74 64 5F 67 72 69 0004C0 5F 73 64 65 6E 69-72 73 74 5F 74 SF 66 5F 70 75 0004D0 10 00 00 5F 74 75 72 65 79 72 75-63 74 5F 73 74 0004E0 69 10 00 6D 64-69 73 6B 00.11 **B4** 72 6F 0004F0 69 6D 5F 66 00 D2 70 6F-6E 73 65 6D 73 67 73 72 65 000500 OD 59 4E 5F 76 6C 75 74 00 06 60-5F-6F 2B 00 09 5F 63 80 000510 00 5F-69 6D 77 6C 75 74 5F 00 08 6C 5F 66 74 6F 000520 B4 0A 00 FC 65 74-6D 6F 64 75 5F 5F 69 6D 6F 000530 OB. 08 5F 80 4A 00 00 27 52-34 43 49 OO. 07 4D 56 SF 000540 5F 69 6D 61 69 6D 00-09 5F 73 6B 61 000550 69 6D 5F 6D 5F 64 65 6E 74-5F 74 68 75 6E 65 00 1 🛱 5F 70 000560 67 72 65 00 09 74 72-75 63 74 75 69 74 79 5F 73 000570 73 5F 6D 65 73 73 6C 65 61-72 00 0B 69 6D 5F 63 5F 000580 6D 76 06 00 E9-B6 2D 00 01 00 65 5F 6F ĠΕ. 67 000590 61 00 OD-63 6C 65 61 72 5F 59 4E 63 69 72 46 23 5F 0005A0 67 8C 00 00-0B 52 45 50 4F 52 54 5F 61 0005B0

sity..\_im\_pixblt .#...CLEAR\_FRAM E..text\_prep.... .. write\_ram\_dis k\_fb....row\_tx t. \$. L. . \_open . . \_U pdate\_mouse\_butt on display.. im\_ setcolor..\_INTDS P..\_im\_setbcolor ....LABEL\_CELL S...+..\_im\_obsum ..\_ki..\_v\_plst.. \_get\_disk\_space. /...label\_rc... s..\_ki\_chk..\_im\_ init..\_get\_ramdi sk\_free\_space..\_ im\_opmode..\_writ e..\_im\_disformat ..\_im\_video..\_ok \_to\_print..\_im\_s ync.:...BUILD\_3 ..GUAD\_97\_LOGO.. .2..\_mouser.\_\_de lete\_ramdisk\_fb. .\_im\_move..\_im\_r ect.O....REPORT MODE...T..\_STRDS P..\_get\_standard \_grid\_structure. .\_put\_first\_dens ity\_structure..\_ im\_fromdisk.... .YNresponsemsg.. .+..\_cl\_ovlut..\_ \_ftol..\_im\_wlut. .\_im\_outmode.... ..MV\_CIR4.'.J..\_ im\_mask..\_im\_ima ge..\_put\_nth\_den sity\_structure.. im\_clear..\_mess age on...-...mv \_cirF#..clear\_YN \_flag....REPORT\_

CIRC...y.\*...\_W rite\_density\_rec ord97....\_quad\_9 7n......CLEAR \_FRAMEO...text\_p rep...row\_txt.. ..LABEL CELLS ... .label\_rc. ..BUI LD 31...QUAD\_97\_ LOGO....REPORT\_M ·ODE"...YNrespons emso...MV\_CIE4& No standards fil e exists, can't save data..Fress any key to cont inue..quad\_97: C an t write cell density data to standards file. Call BVI..quad\_9 7: Can't write c ell density data to standaros fi le. Call BVI.... o...Biological Vision - DUAD -Probe difference and % change.qu ad\_97: Not enoug h disk space to run..quad\_97: No t enough ram dis k space to run.. ---- PROCESSING IMAGES ----.Ca n't access grid data, using defa ults.Using defau 1t orid structur e data.\bvi\min. pic.\bvi\hold.pi c. ---- CALCULAT ING OPTICAL DENS ITY -----

Part.

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000B70

PROCESSING IMAGE s ----.Check pr inter status, pr ess I to ignore it. C to continu e..PRN.\*\*\*\* Can not open device Line Printer \*\*\* \*.%c.\bvi\hold.o ic. \bvi\min.bic. Check printer st atus, press 1 to ignore it. C to continue..PRN.\* \*\*\* Can not open device Line Pri nter \*\*\*\*.%c.\bv i\min.pic.lbvi\h old.pic.a....M ove the mouse to position the wi ndow into the im ages.Surround a dot with the cur sors by moving t he mouse.

> MOUSE BUTTON ACTION MENU

> > \*\*\*\*\*\*\*

. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ..... LEFT BUT TON . MIDDLE BU TTON . RIGHT BUT TON . . Togole t o. ...Hold to ... . ..Press to .. . MOVE Images / . CHANGE BIZ E . CALCULATE . MOVE Cursors . of Circle . OD in cursor \*\*\*\*\*

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002D80	00	00	83	C4	04	FF	76	BA-9A	00	00	00	00	83	C4	02	
002D90	6A	00	6A	02	9Α	00	00	00-00	83	C4	04	6A	01	6A	00	j.jj.j.j.
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002DD0	86	8E	F2	80	96	90	F2	8D-86	C4	F۵	87	86	96	F2	8C	
002DE0	96	90	F2	8D	46	F4	89	86-80	F2	80	96	82	F2	8D	46	FF
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003800	CE	73	56	51				05-06		56	05			56 05	.svu.mvnvdv.
003810	C6	61	56	05	Co	50		05-06		56				56 05	.PVMVIVEV.
003820	C6	50	56	05		4D		05-04		56				56 05 06 15	.9 ( Va V
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003010	CF	68	Ξe	ΞE	CF	46	56	53-CF		5ė	ZE SE	CE	DB	56	55	V+V5V>VU
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003030	CA	B5	9D	CE	80	56	33	C6-55		Có	4F	9D	C6			V#V>VV.
OOED40	CE	20	Ξò	1D	CE	23	56	SE-CI		56	1F	CD	D2	56	OE	. TV V V V V V V V
003D50	C5	C9	9D	85	$\mathbb{C}^{0}$	56	2D	85-B3		2F	CD	93	56	OE.	C5	wVjV/.Q.
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003F70	3B	76	10		$\mathbb{R}\mathbb{Z}$			F8-89	76		8B 46		00	00	9B	.,F.,F.,F.,F.,.
003F80	00	89	46		BB	46			F2	C7			8B	46	14	F.9F., j.FFF.
003F90	46	14	39	46	FZ	7F			FC	89	44	EE		40	EE	+F, @, F, , F, , V, , F.
003F40	28	46	12	40	89	46		01-46		88	76	F2 De	SB SE	02	57	F.V. nu se se ne ne W
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001D10	9C	C7	A1	56	05				C7	88	90	C7	88	50	05	
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001050	5B	56	05	CF	54	56	51			05	C7	37	90	C	<u>5</u> 4	AVV9V74
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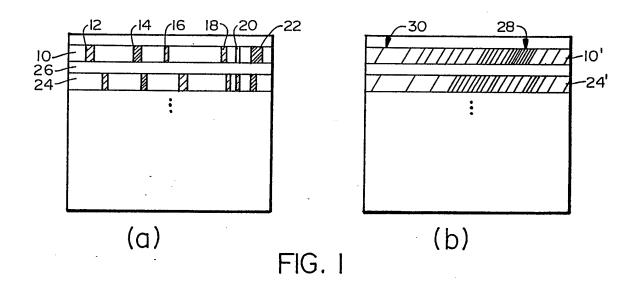
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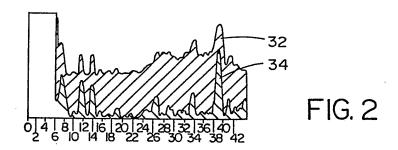
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002910	ijij	66	$\circ 1$	ΘA	$\mathbb{Q}()$		្លា	00-83	C4	04	фH	OÙ F≜	FF	 	00 A4	Taesen V.
002920	$\circ \circ$	OO	83	C4	02	FF	Bó	54-F7	FF	Bo	CZ				(ii)	
002930	OF.	EB	00	O.	83		Ú¢.	1E-68	OE:	02	⊕A ar	<u>C</u> d		83		анана Зиаванна чи
COMPAC	ÜÜ	ÚÜ	83	$\mathbb{C}^4$	96	<u>⇔-</u> 1	ÇÙ	QE-EB	00	- QQ:	57 00	ille se		18	- H	
1002550	ΕÆ	Fs	$\circ\circ$	75	03	E	D2	00-80	JE	)ai	43	LE	58	29	0.7:	u.aljC.b).
002550	្លើម៉ៀ	ĆιĎ			OB	<u>C</u>	75	OF-5A	49	6(A	ψÜ	75		EΦ		
002970	OE	E8	00	00	53	C4	08	80-3E	04 00	-00 -00	00	5 T	<b>C4</b>	 		.jhd
002580	00	69	01	1E	68	~ F	02	9A-00 68-02	- 6A	01	9A	00				F.@uhh.j
002990	46	AZ		75	11	1E.	68 C7	86-A6	F4	00		68			BŦ	
0029A0	83	C4	- 06 - 55	EB	6E FC	F6	16	07-F2	AB	ÀΑ	83	క్ర	Ĥά	F-4	Oβ	
0029B0	01 8D	-00 -86		Fá	BB	D8	88	FB-90	DO	B9	FF	FF	33	CO	FI	
002700	AE	F7	DI	49	51	8D		FC-F6	i 6	50	FF	76	42	AB	90	I G P . V
0029D0 0029E0	4D	01	CF	6E	56	25		69-9D		5A	50	30	C.Z	57	ЭD	MVZ.iZVO.W.
0027E0	C7	4B			44	56	4F	C7-40		CF	32	56	42	<b>C</b> 7	20	.KDVO.@ZVB
002400	9D	87			45	CF	10	56-25	C7	ÓΒ	ЯD	87	ņ.	54	44	VEV%VJ
00ZA10	ĆE	FO		1 D	CE	E6	56	3E-86	DB	50	34	Co	CF	91	C6	VV>V*
002A20	CB	9F				35	86	AD-56	54	CE	73	50				V5VTVU
002A30	56	34	CE	7D	56	32	CE	71-56	3E	CE						V4.3VZ.qV>.dVY
002A40	56	ЗE	86	51	56	20	88	4A-56				Se				V>.QV,.JVD.1VA.%
002A50	56	3Ε	CE	19	56	2B	CD	EF-56								V>V+VSV' VVVXVSVA
002A60	56	56	CD	BD	56	58	CD	B0-56								V>VEV%yV
002A70	56	3E	85	90	56	45	$\Box D$	85-56								JVJVTVV
00ZA80	44	85	1A	56	4A	85		56-54								31. V31. V V V.
002A90	05	C4	AO	90	C4	9D	56	05-04	98	56	05	L4	92	56		
002AA0	C4	8F	56	05	C4	8D	90	C4-8A	56	05	<u>4</u>	. E.	) De	) UC	ነ ሁጥ	
002AB0	्र 🖂 📆	유ር	F 4	. AO	5.4	- 05	- C4	78-56	, Ob	L-4	- 77	DC	5 U	, LL	. <b>u</b> u	
OOZADO	56	51	C4	- 68	56	05	C4	66-90	: C4	- 63 	. D6	OT E	) L.4	: O:	. 7E 5 EA	
002AD0	C4	5E	: 56	05	C4	5C	9F	C4-59	56	05	: U4) : // .	: 04 =:/	1 25 1 45	o Vi	ა ს~† 1. /11	_
00ZAE0	4E	56	05	C4	4E	56	05	C4-49	7 ሣኒ	. ሌላ ተ	ነ ተር ነ ምላ	, at	) D.	, L.	T TA	
002AF0	56	OE	C4	3B	56	05	U4	38-56	y Oth	1 LA	. കുട	) 76 1 67	. L." 1 15	· 5	. SC 4 OS	
002B00	05	C4	. 2E	56	05	CC	. 24	56-51 C4-13	. L.∸ : ==∠	r ∡	. უს 5 ლ/	. <u>.</u> . 17	, <u>.</u>	 	. C4	
-002B10	- C4	- 10	: 9F	- U4	. 17	ಿದ	· VD	L4-1-	عاس د	) V		. 4.				

<u>...</u>





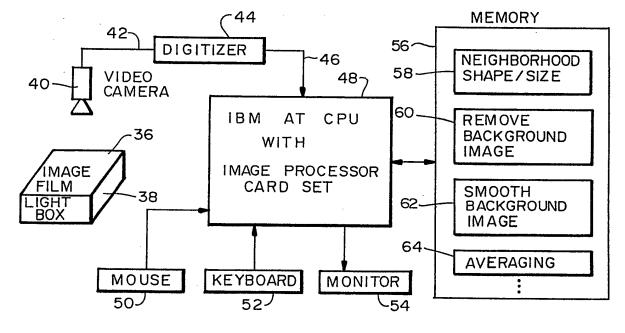
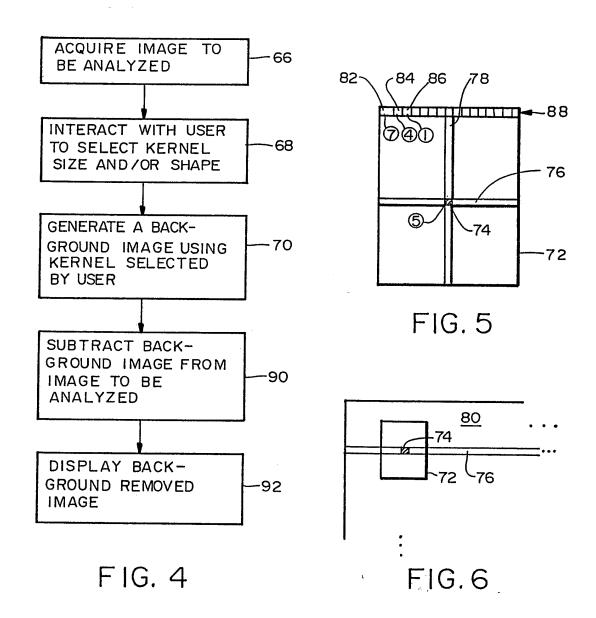
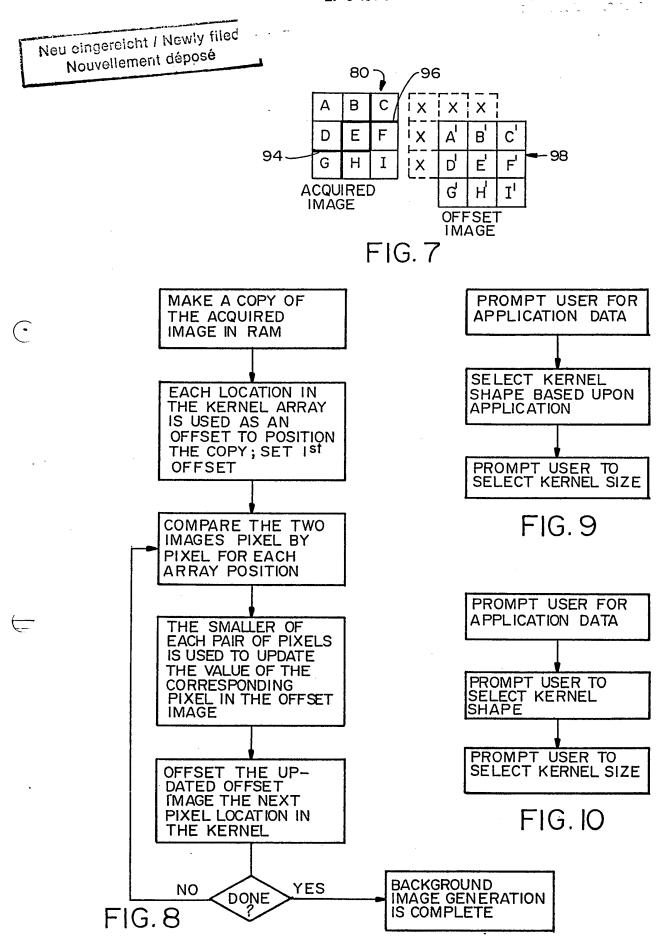


FIG. 3

(





Neu eingereicht / Newly Nouvellement déposi

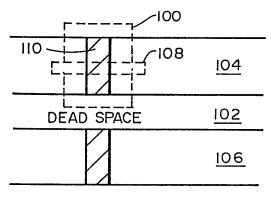


FIG. II

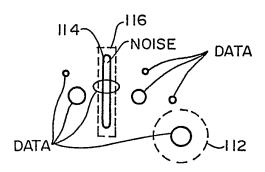


FIG. 12

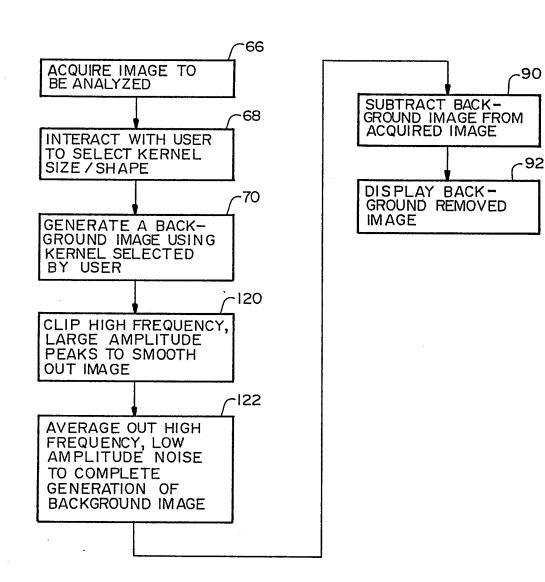
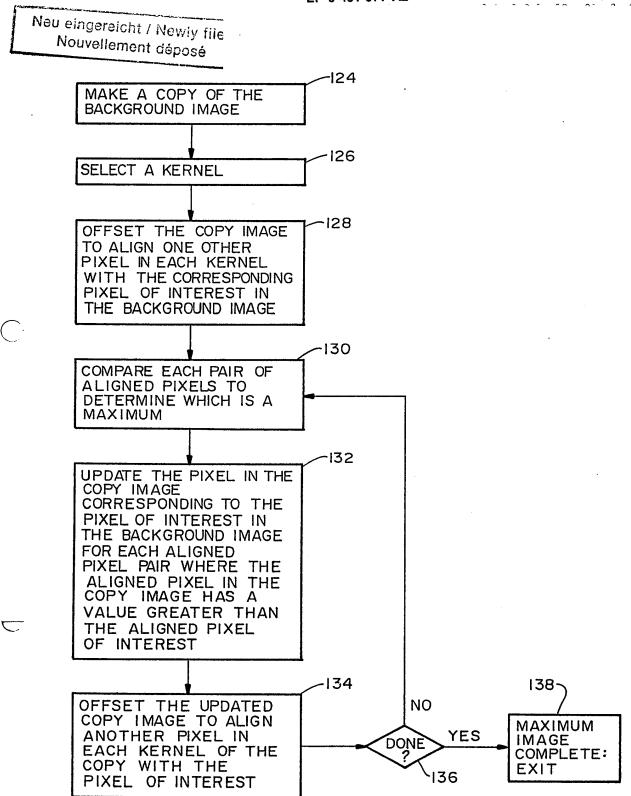


FIG. 13

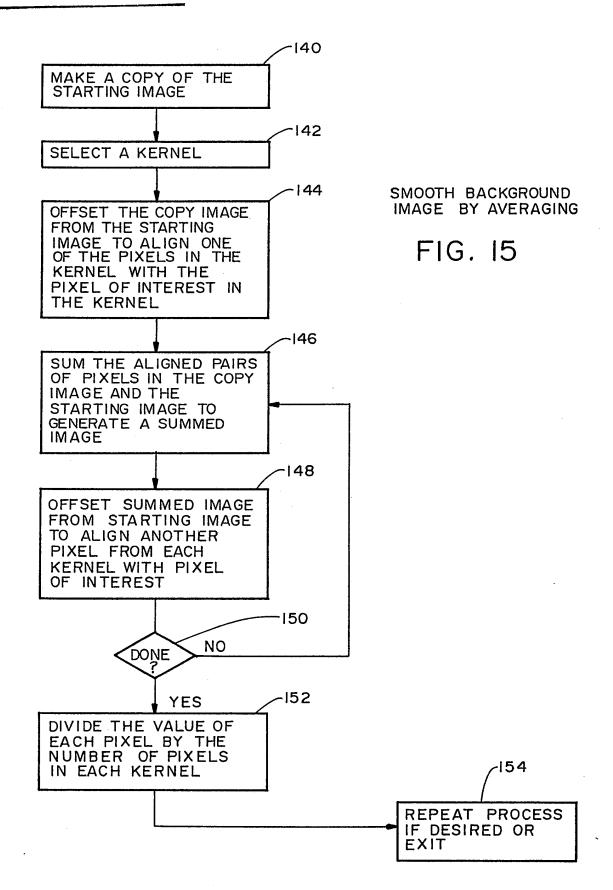


GENERATE MAXIMUM IMAGE FROM BACKGROUND IMAGE

FIG. 14

Neu eingereicht / Newly file Nouvellement déposé

C



Neu eingereicht / Newly file Nouvellement déposé

## PROCESS FOR GENERATING A PERCENT CHANGE IMAGE

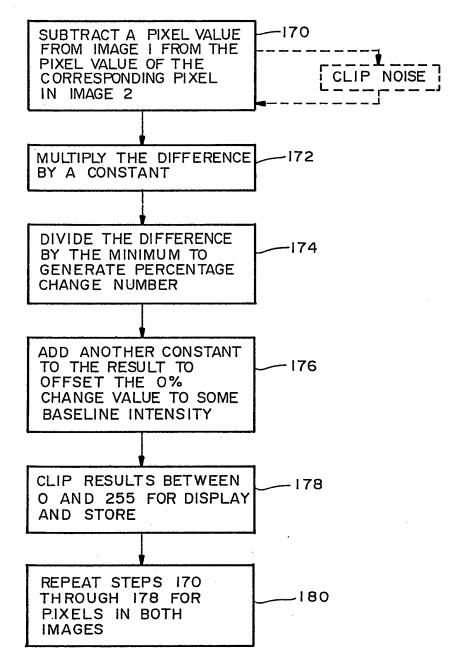
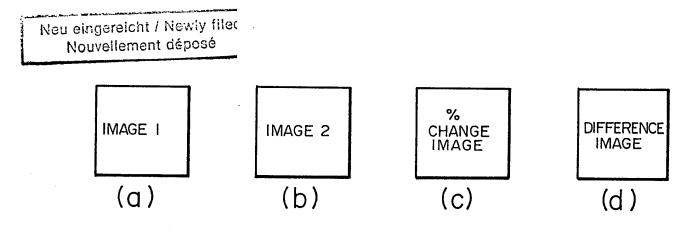


FIG. 16

£ 7.



QUAD (	DISPLAY				
I82	IMAGE 2				
186 DIFFERENCE IMAGE	188 ✓☐ % CHANGE				
(e)					

IMAGE I TOP 1/4 STRIP	
IMAGE 2 TOP I/4 STRIP	
DIFFERENCE IMAGE TOP 1/4 STRIP	
PERCENT CHANGE IMAGE TOP 1/4 STRIP	

FIG. 17

FIG. 18

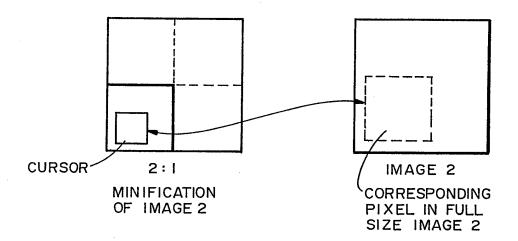


FIG. 19

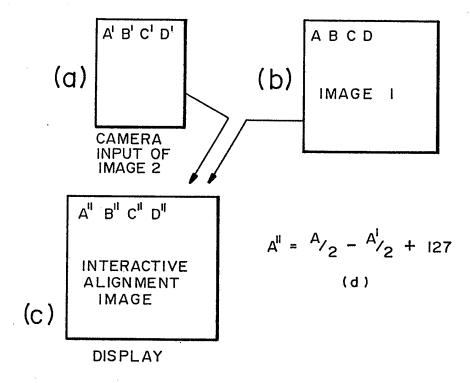


FIG. 20

**PUB-NO:** EP000401077A2

**DOCUMENT-IDENTIFIER:** EP 401077 A2

TITLE: Method and apparatus for

removing noise data from a

digitized image.

PUBN-DATE: December 5, 1990

INVENTOR-INFORMATION:

NAME COUNTRY

RUTHERFORD, HAL US

ASSIGNEE-INFORMATION:

NAME COUNTRY

BIOLOG VISIONS US

**APPL-NO:** EP90401304

**APPL-DATE:** May 16, 1990

**PRIORITY-DATA:** US35425589A (May 18, 1989)

INT-CL (IPC): G06F015/68 , H04N001/40

**EUR-CL (EPC):** G06T005/20

## ABSTRACT:

An apparatus and method for removing background noise and high frequency noise form an image by comparing each pixel in the image with

neighboring pixels defining a variably shaped and sized kernel. The size and shape of the kernel are optimized for the particular characteristics of the data to be analyzed.